E600

SERVICE GUIDE

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CHAPTER 1

Hardware Specifications

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Hardware Specifications and Configurations

Features

The following is a summary of the tablet's many features.

Operating System

Android 4.4 KitKat

UI Version

Acer Shell UI & APP (comply with Acer latest FCS model)

Processor

Qualcomm MSM8926, 1.2 GHz, ARM Cortex A7

Memory

ROM 4GBeMMC + RAM 1GBLPDDR2

Optional: ROM 16GBeMMC + RAM 2GB LPDDR3

Display

5" IPSTFT LCD

Resolution: FWVGA 854 x 480 16:9 ratio

Color: 16.7M

Brightness: up to 350 nits (with Touch panel)

Touch

Touch Lens: OGS Type,With Air bonding and The Narrowest Boarder

Cover Surface Hardness: 7H (With Anti-Finger print Coating)

4 color printing (Black, Logo, Sensor hole)

Capacitive, Multi Touch function (up to true 4 point)

Dimensions

147 x 71.8 x9.54mm

Weight

TBC (Under 165g with battery)

Radio

WTR1625L

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4G LTE band combination

EU Band:1, 3, 7, 20	Remark：2100,1800,2600,800
US Band: 1, 2,4, 7	Remark：2100,1900,1800,2110-1755（AWS）,2600,
TW: 3, 8, 28	Remark: 1800,900,700

3G HSPA+/WCDMA band combination

EU/ TW band: 900 / 1900/ 2100 MHz

US Band: 850/ 1900/ 2100MHz /AWS band

2G GSM/GPRS/EDGE: 850MHz / 900MHz / 1800MHz / 1900MHz

LTE Downlink 150Mbps , Uplink 50Mbps

DC-HSPA+42/11Mbps

GPRS Class 12 /EDGE Class 12

MMS, SMS, Email, IM

AWS band 3G/4G layout reserved	Yes
AU Band (850/2100) layout reserved	No

Connectivity

Wireless LAN (IC: WCN3620)	IEEE 802.11b/g/n (support WAPI in China SKU only)
GPS (IC: WCN3620)	Yes, with A-GPS support and SUPL
Bluetooth (IC: WCN3620)	Bluetooth® 4.0 with EDR (Comply with BT3.0 & High speed)
FM (IC: WCN3620)……	Yes
Micro-SD slot	Yes, up to 32GB, SDHC 2.0 compatible
Micro-USB	Yes
Audio output	3.5mm standard audio jack
HDMI	No
Acer Clear.Fi	No
OTG	No
MHL	No

Camera

Main	8M AF with LED flashlight, F2.0, Sensor OV8858, 1/4" 1.12um
Front	0.3M FF

Voice

Microphone	Dual
Echo Cancelation	Yes

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WB-AMR/ HD voice	Yes

Audio

Dolby Mobile	No
DTS	Yes
Speaker	102 dBphon with 5cm based on the condition: Yuchen front SPK box(091630)design.

Ergonomic Design

1. Capacitive, Multi Touch function (up to true 4 point)
2. Side keys:
   - Volume Up/Down
   - Independent Power key on device Top side
   - Acer Rapid on device Rear side

LED Indication

One LED (Red / Green/ Blue Color)

Indicator scenario: Charging / Missed Call / Voice Mail / New Message / Low Battery

Sensors

Ambient L-sensor	Yes
G-sensor	Yes
e-Compass	No
Proximity sensor	Yes
Hall sensor	Yes
Gyro-sensor	No

Dual SIM slot

Yes,Micro SIM (also needsSingle SIM sku support)

Text Entry

Google virtual keyboard/Swype

Messaging

Universal inbox	SMS, MMS
Email	Gmail
IM	Gtalk

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Web

Browser	Android Browser, Chrome Browser
Search	Google Search

Entertainment

Video, Music	Google Default
Music streaming	No
Video streaming	YouTube
Social network	Facebook

Productivity

Push mail	Gmail
PC sync	Google cloud sync
Cloud sync	Google Cloud
Office	Polaris Office Editor

Location-based Services

A-GPS	Satellite Data Update
Maps & directions	Google Maps, Latitude, Street View

Online App. Store

Google play store

RCSE

No

Power

Voltage range/frequency: 100 ~ 240V AC, 50/60 Hz

DC output: 5V and 1A

Battery

Rechargeable/ Non-ReplaceableLi-Polymer battery

Capacity: 2,500mAh (4.3V)

2G Stand-by >250 hours

2G Talk Time >6 hours

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3G Stand-by >250 hours
3G Talk Time >4 hours
Quick Charge: 40% in 1 hour

Packing List

Device, AC adaptor, USB cable, Quick start guide, Warranty card, Safety leaflet , TP protection film, Headset

Optional Accessories

Battery cover flip

Certification

EU SKU : CE / GCF Conformance / GCF OTA / GCF FT/GCF IOP/BQB / WiFi logo
US SKU : FCC/CTIA OTA/WIFI OTA/IC/HAC
TW SKU: NCC

Green Design

Must Comply with acer 707-0008-V7 Guidance of Restricted Substances procedure

RoHS/WEEE	Yes
PVC Free	Yes
Halogens Free	No

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Configuration

This section provides an overview of the features and functions of this phone.

Front View

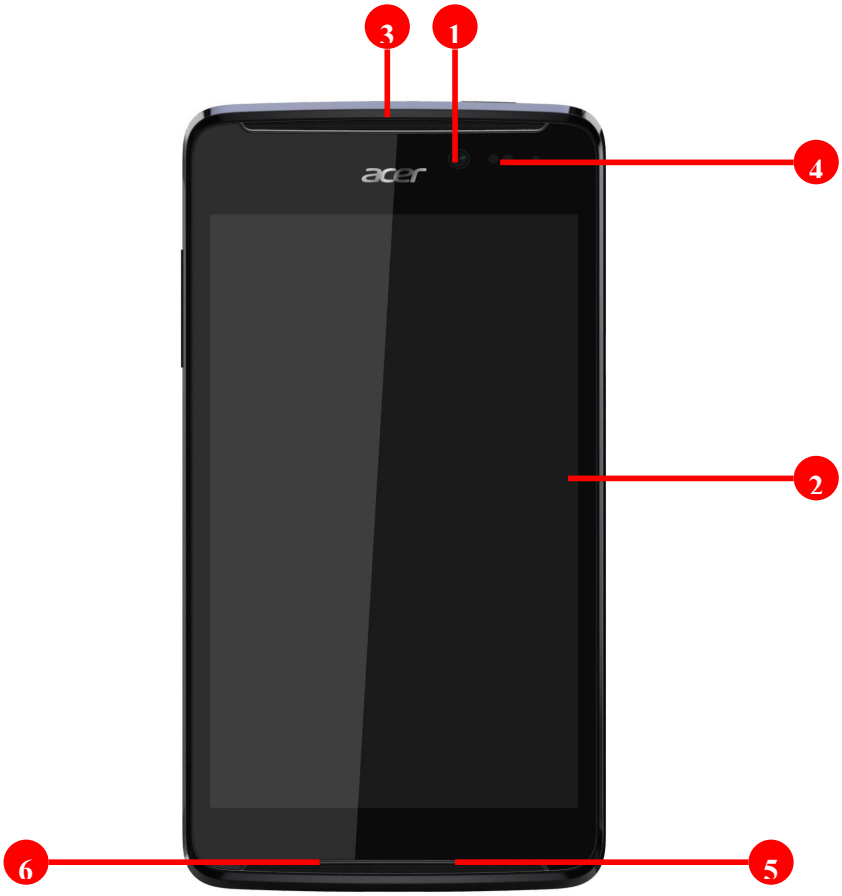

Figure 1-1. Front View

Table 1-1.Front View

No.	Item	Description
1	Front-facing camera	0.3M Pixels camera for video chats and self-portrait images.
2	Touch screen	Capacitor Touch screen,5.00 inch
3	Receiver	Receive audio
4	P-sensor	Proximity sensor
5	Main microphone	Receives audio for video chats and Internet calls.
6	Speaker	Emits audio

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Left View

Figure 1-2. Left View

Table 1-2.Left View

No.	Item	Description
1	Volume control key	Increases and decreases the phone volume.

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Right View

Figure 1-3. Right View

Table 1-3.Right View

No.	Item	Description
1	Micro USB port	Connects to a computer via a USB cable, and as the charging port for the AC adapter.

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Top View

Figure 1-4. Top View

Table 1-4.Top View

No.	Item	Description
1	Headphone jack	Connects to audio devices (e.g., speakers, headphones).
2	Power key	Long press to turn the phone on, press briefly to turn the screen on/off or enter sleep mode; press and hold to turn the phone off.

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Bottom View

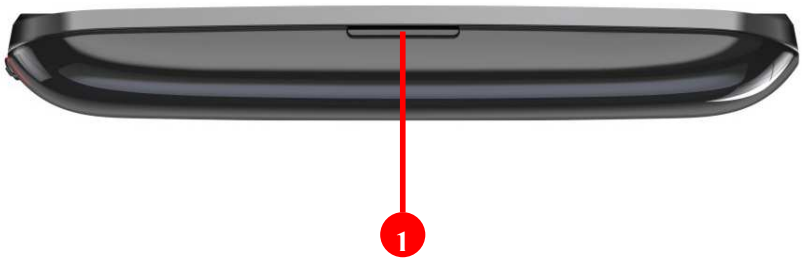

Figure 1-5. Bottom View

Table 1-5. Bottom View

No.	Item	Description
1	The gap of battery cover	This gap for easy disassembly battery cover

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Back view

Figure 1-6. Back View

Table 1-6. Back View

No.	Item	Description
1	Rear camera	8.0M Pixels camera for taking high-resolution images and video.
2	LED flash	Flash when take image and video
3	Switch	Select function
4	Sub microphone	Receives audio for video chats and Internet calls.

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Touch screen Basics.

Your phone uses a touch screen for selecting items and entering information. Use your finger to tap the screen.

Tap: Touch the screen once to open items and select options.

Drag: Hold your finger on the screen and drag across the screen to select text and images.

Tap and hold: Tap and hold an item to see a list of actions available for that item. On the pop-up menu that appears, tap the action you want to perform.

Scroll: To scroll up or down the screen,

System Block Diagram

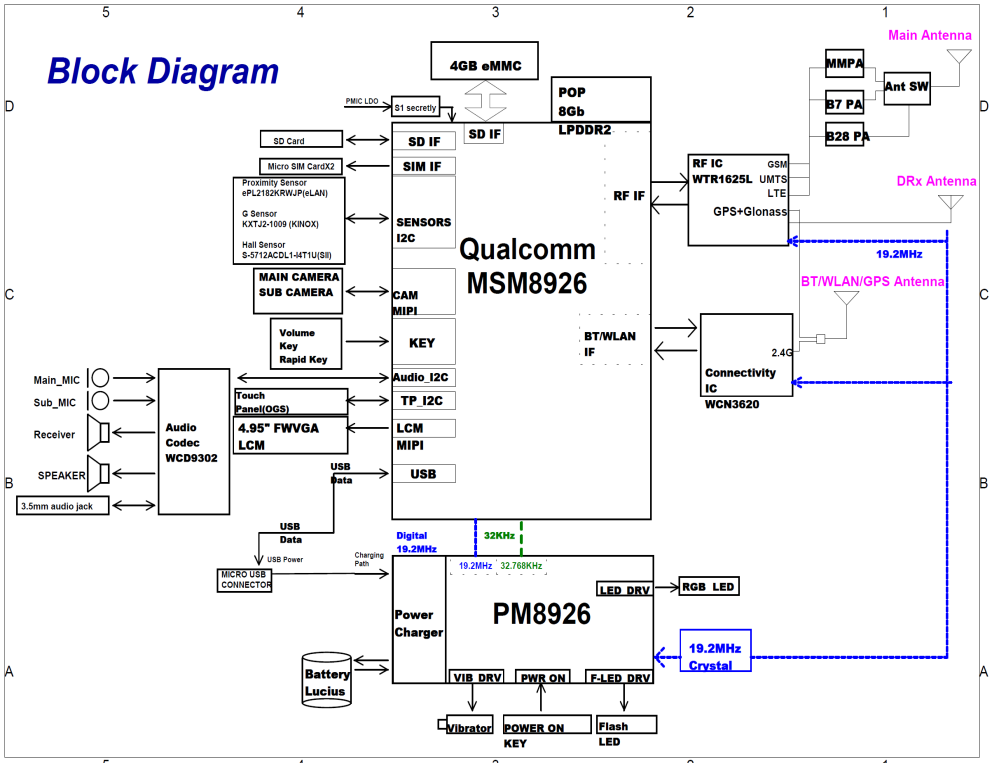

Figure 1-7. System Block Diagram

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CHAPTER 2

Diagnostic Utilities

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Diagnostic tool

*****Notice before test(You need do as step A、B and C、D)**

A: MainMenu ->Settings->DTS Studio Sound->make "DTS Studio Sound" disable.

B: MainMenu ->settings->Display->make "Auto-rotate screen" disable.

C: During ATS test you can't press Home key and Recent app key.

D: Input "*#3313287#*", and then enter diagnostic tool .

1. SIM card/SD card test

Check whether SIM Card number is display，SD Card status: Mounted (normal),if not insert SIM/SD Card display NG，if SIM Card and SD Card test OK，press menu Pass。

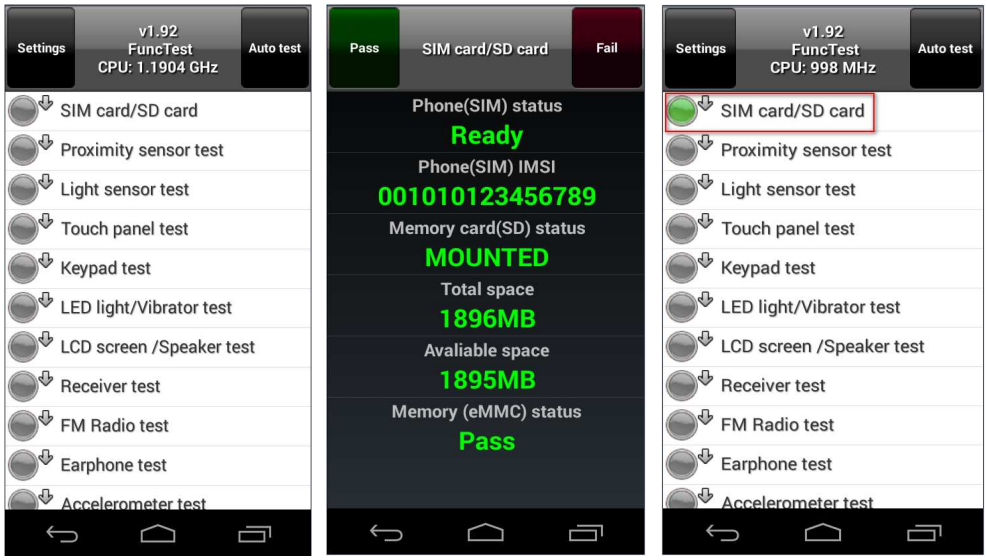

Figure 2-1. SIM card/SD card

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2. Proximity sensor test

Proximity sensor test，let your phone flat on table ,put your hand on the phone and only near the phone about 5cm, press Calibration step1，after popup "press Calibration Step 2" ,withdraw your hand and press "Calibration Step 2" after popup a popup，if popup "Calibration Pass" then press "Test" and put your hand on the phone and only near the phone about 5cm after 1sec withdraw your hand ,if popup "Pass " and exist to test list page ,it is pass others it is fail.

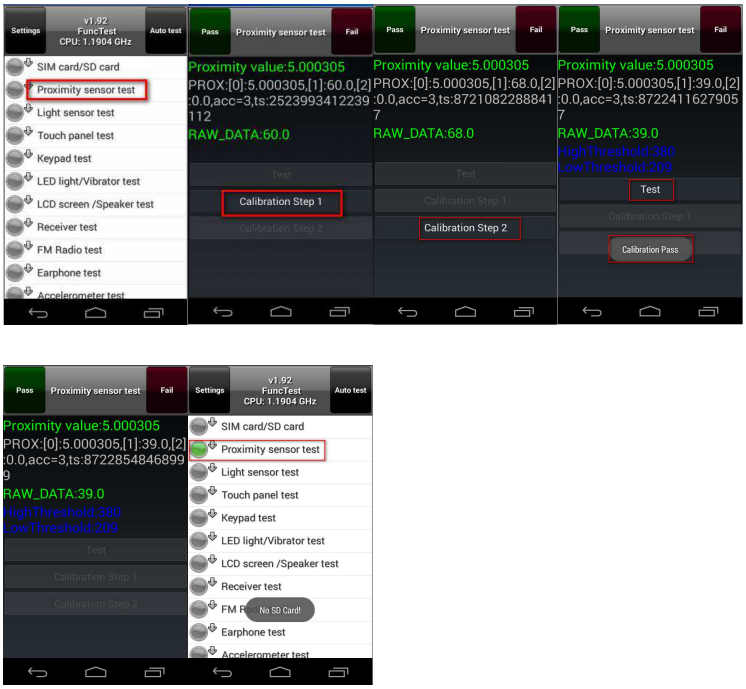

Figure 2-2. Proximity sensor

3. Light sensor test

Enter Light -sensor test ,press "Calibration"，when display blue color character and popup "Calibration Pass" it can Pass。

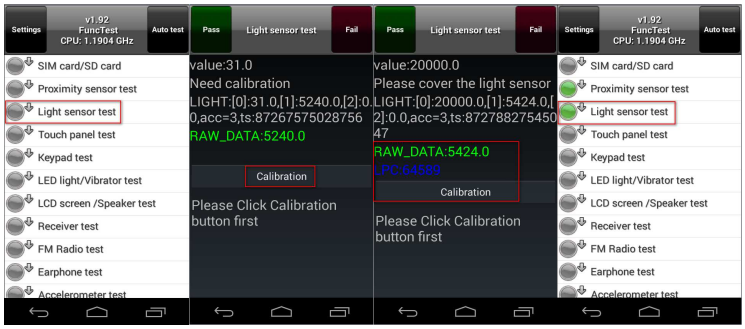

Figure 2-3. Light sensor

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4. Touch panel test

Enter Function test mode, and then select Touch panel test press enter test mode:

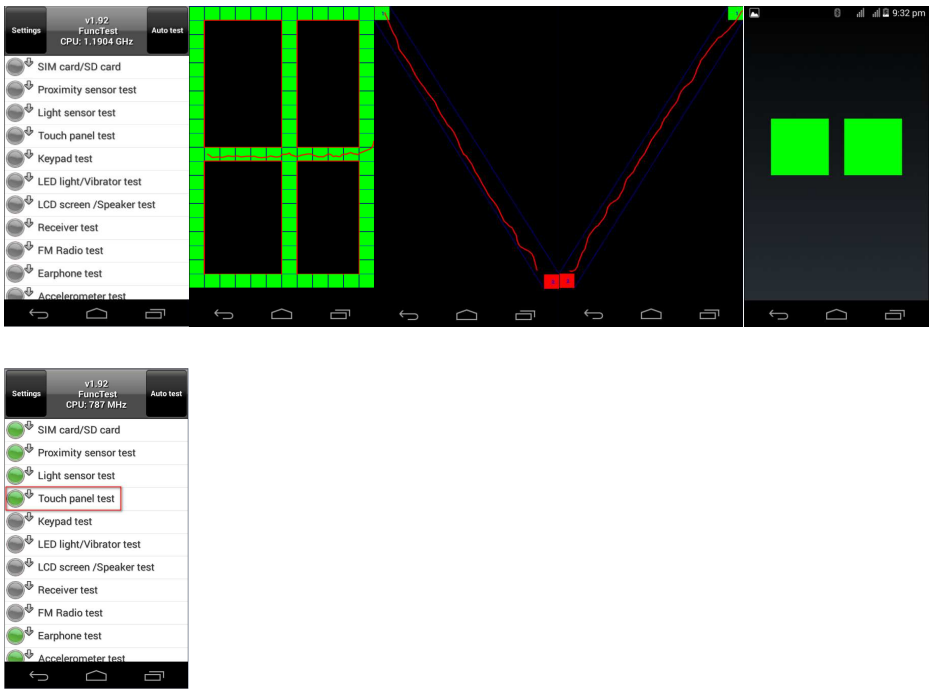

Figure 2-4. Touch panel

5. Keypad test

Enter keypad test，check up whether Volume+key /Volume-key / Back / Home / PAPID / Switch work normally。

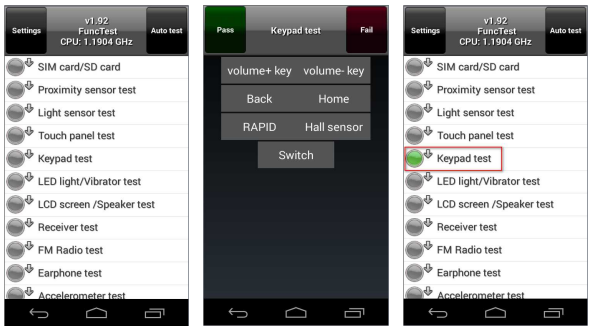

Figure 2-5. Keypad

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6. LED/Vibrator test

6.1. Enter LED light, press Vibrate test and FlashLight LED, check whether Vibrate test and FlashLight LED work ok. Take turns press Red LED Green LED Blue LED check whether color display normally。

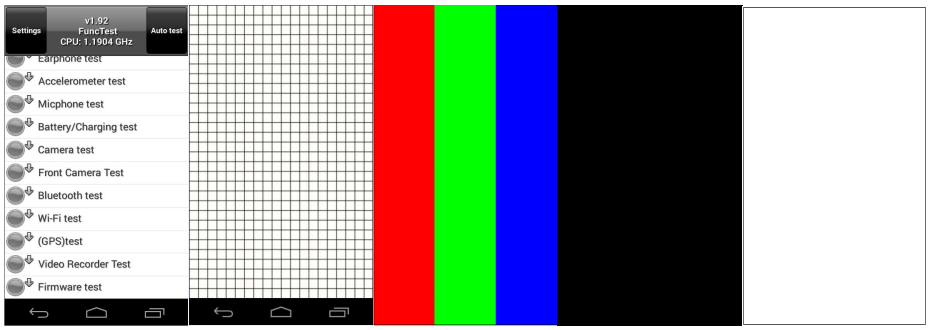
6.2. If affirm OK press Pass, NG press Fail

Figure 2-6. LED/Vibrator

7. LCD/Loud Speaker test

7.1..LCD test: screen will auto switch color display，check up screen whether display normally，red green blue display normally， and horizontal/upright lines.

7.2. speaker test: Let Speaker near ear ,check Speaker whether work normally, OK press Pass, NG press Fail,if need press Re-test.



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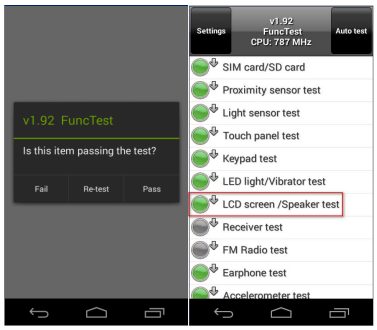

Figure 2-7. LCD/Loud Speaker

8. Receiver test

Enter receiver test, put the phone near ear about 5ms,affirm work normally，adjust volume up and down key，check whether volume change normally .

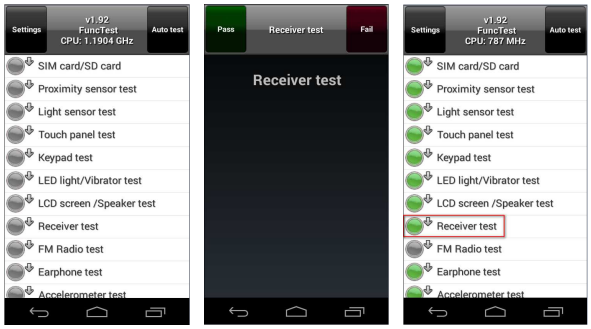

Figure 2-8. Receiver

9. FM Radio test

Insert earphone, listen FM Radio whether work normally.

Figure 2-9. FM Radio

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10. Earphone test

10.1. insert earphone press volume up and down key test Earphone speak something test whether earphone work normally

10.2. If affirm OK press Pass, NG press Fail

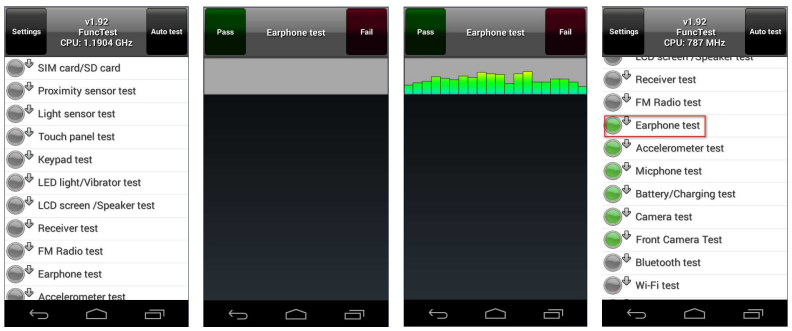

Figure 2-10. Earphone

11. Accelerometer test

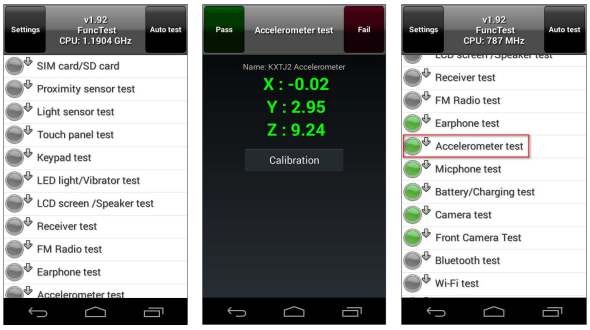

Figure 2-11. Accelerometer

12. Microphone test

12.1 Enter microphone test, have phone test check whether microphone work normally

12.2 If affirm OK press Pass, NG press Fail

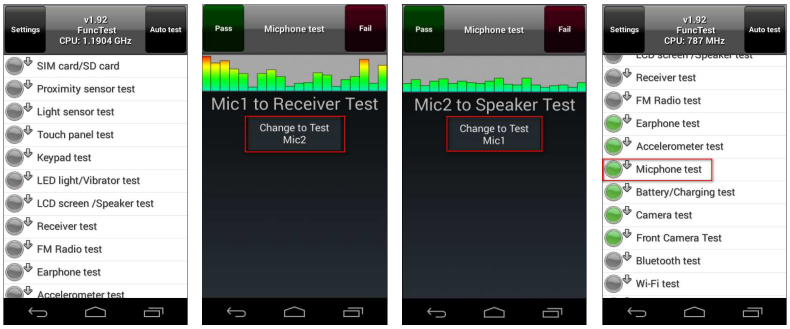

Figure 2-12. Microphone

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13. Battery/Charging test

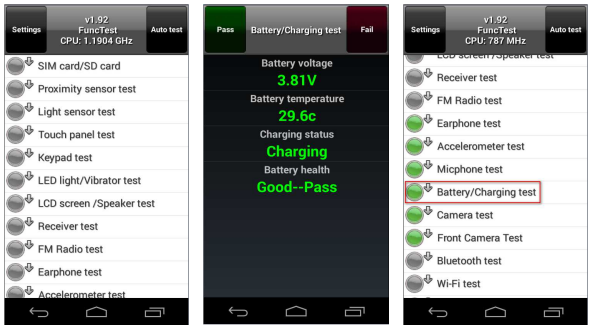

Figure 2-13. Battery/Charging

14. Camera test

14.1. Enter camera test, let the phone enter menu preview, examine camera whether preview exist focus badness issue，aim at focus press shooting, check whether camera menu is in focus、focus badness issue and so on, if need test again press Save retest,

14.2. If affirm OK press Pass, NG press Fail

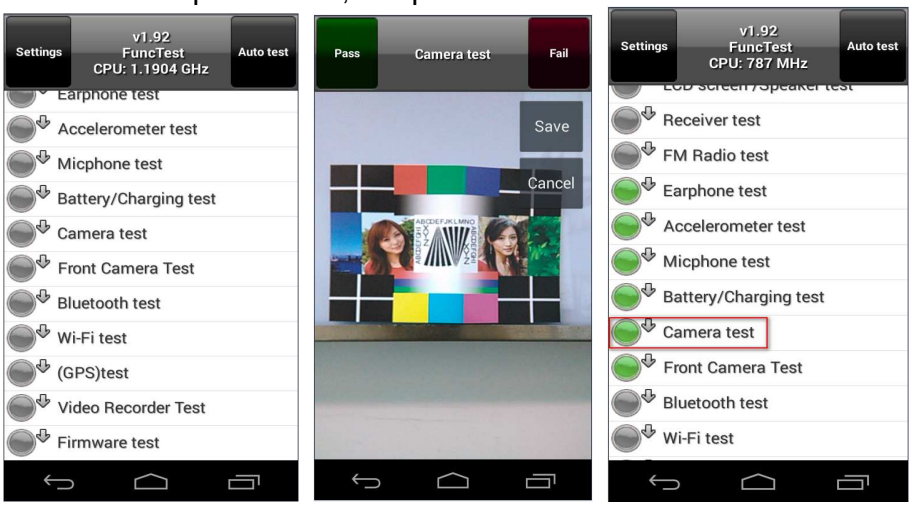

Figure 2-14. Camera

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15. Front Camera test

15.1. Enter front camera test，let the phone enter menu preview, examine whether camera preview exist focus badness issue， aim at focus press shooting, check whether camera menu is in focus、focus badness issue and so on issue, if need test again press Save retest.

15.2. If affirm OK press Pass, NG press Fail

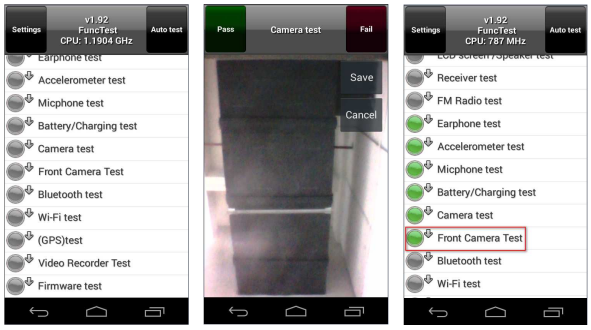

Figure 2-15. Front Camera

16. Bluetooth test

Enter bluetooth test auto explore bluetooth GT-19105P,if OK press Pass, NG press Fail

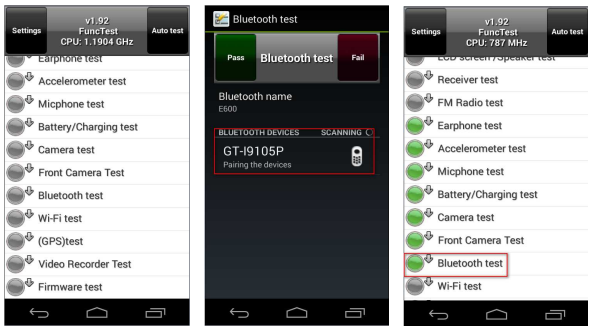

Figure 2-16. Bluetooth

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17. Wi-Fi test

Enter WIFI auto explore test, affirm the phone can auto explore Moto Smart Phone, if OK press Pass, NG press Fail

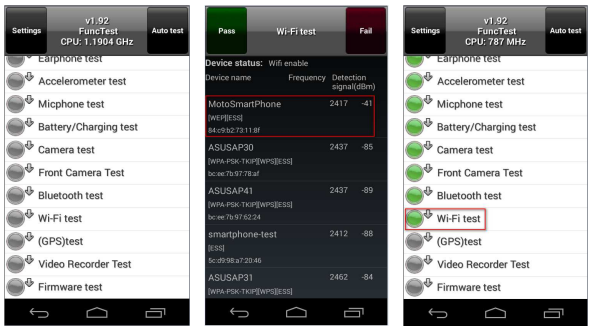

Figure 2-17. Wi-Fi

18. GPS test ：

18.1 Select GPS test.，press start GPS test it will auto explore info， Satellite number must bigwig 3， SNR（c/n）must≥35，then it can Pass

18.2 If OK press Pass, NG press Fail

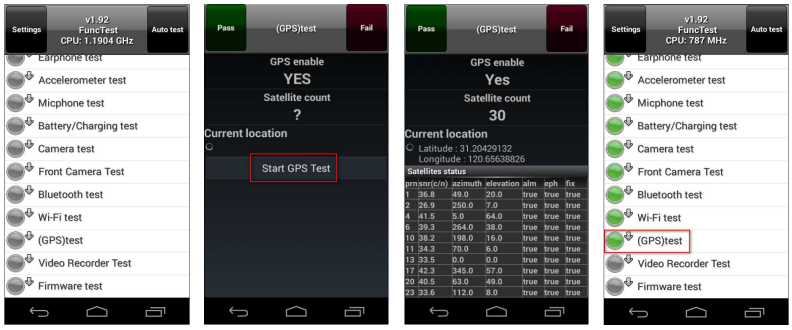

Figure 2-18.GPS

19. Video Recorder Test

19.1. After enter Video Recorder test，press Start Video test go along kinescope，after finish this it will auto play kinescope，affirm kinescope play fluency and in focus.

19.2. If affirm OK press Pass，NG press Fail

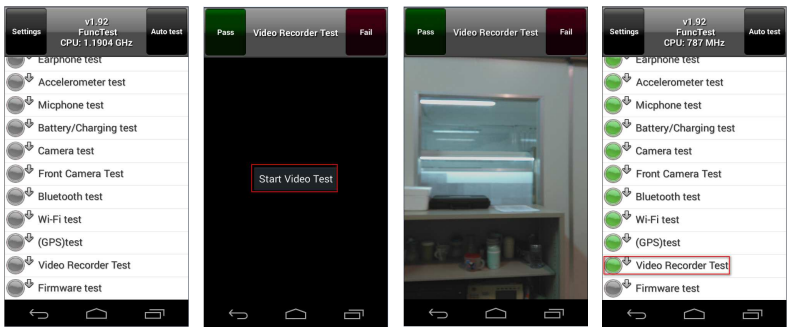

Figure 2-19. Video Recorder

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SN and IMEI rewrite tool

1. Enter the APK

Enter the dialing interface , and dial “*#33130903#*”,like **Figure 2-20**

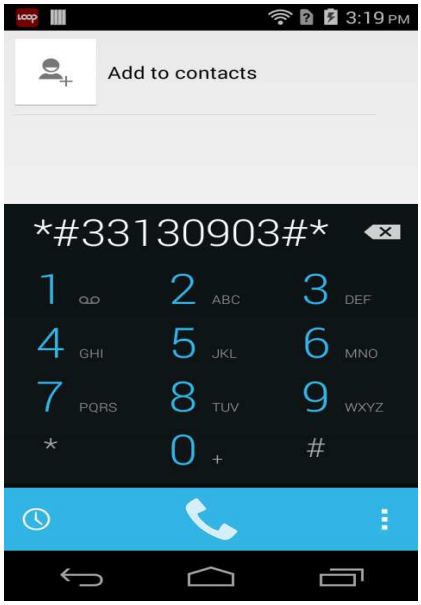

Figure 2-20. Enter the APK

Then APK will be started, like **Figure 2-21**

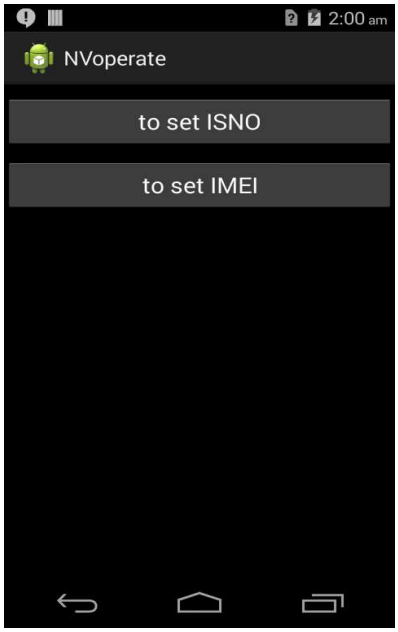

Figure 2-21.NVoperate

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2.Read and Write ISNO

a. Click “to set ISNO” button, into read and write interface, like **Figure 2-22**

b. Now you can click read button to read ISNO, or click write button to write ISNO what you write in line of “write:”

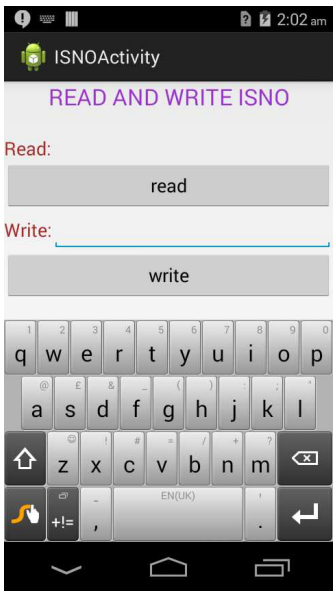

Figure 2-22. Read and Write ISNO

c. If you write correct ISNO, appear the dialog of "Write success, please restart", and then click “Cancel “, and then press the“ Power key" to turn off this phone, like **Figure 2-23**

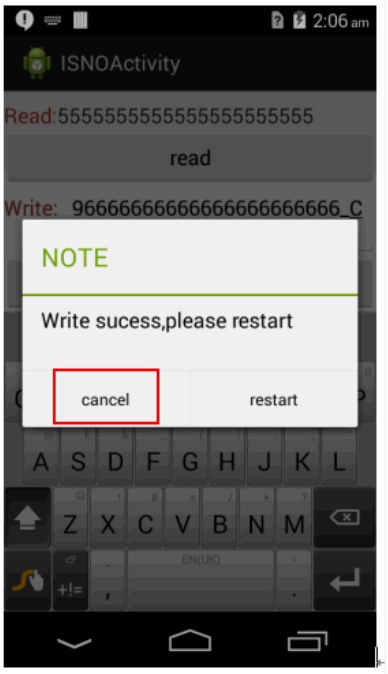

Figure 2-23.Write success

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d. If you write incorrect ISNO, it will prompt an error message “incorrect input”, like **Figure 2-24**

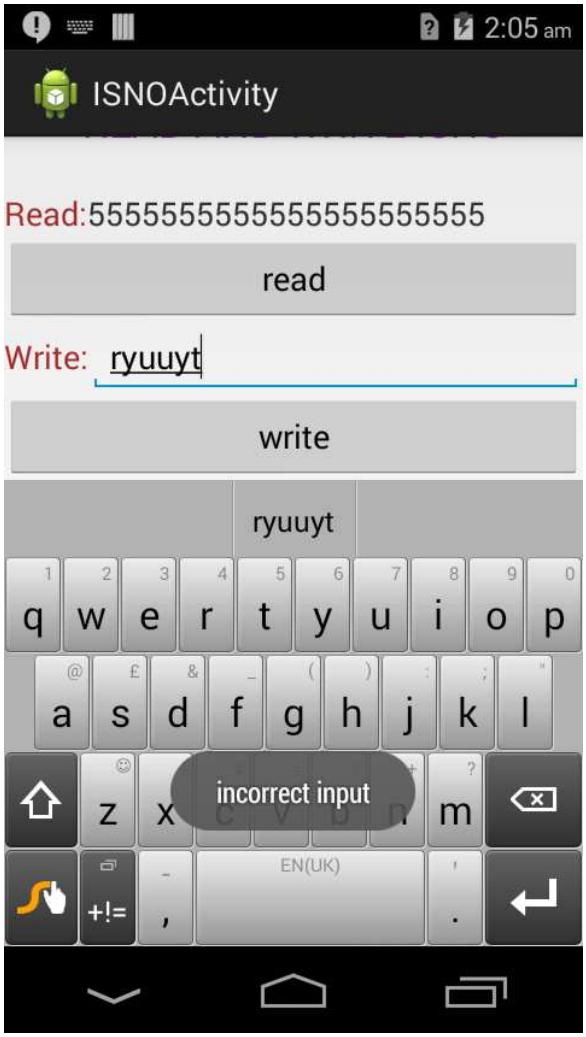

Figure 2-24. Write incorrect ISNO

NOTE:

ISNO must be written in accordance with the rules , or write unsuccessful.

The rule is:9+XXXXXX+_CALOK(XXXXXX is the ISNO)

For example:

There is a ISNO:1234567890123456789012 , so we write

9123456789012345678901 2_CALOK

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3.Read and Write IMEI

a. Click “to set IMEI” button, into read and write interface, like **Figure 2-25**

b. Now you can click read button to read IMEI, or click write button to write IMEI what you write in line of “write:”

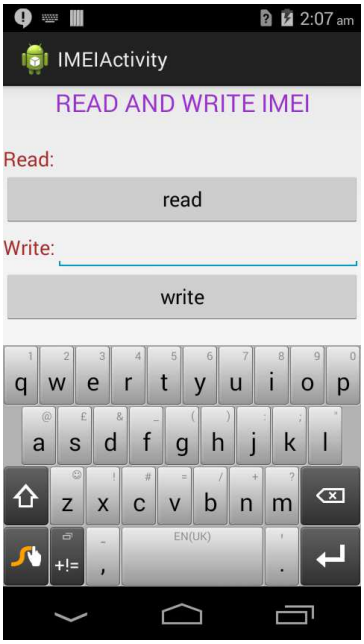

Figure 2-25. Read and Write IMEI

c. If you write correct IMEI, a dialog will be pop up to tips for success and need to restart, like **Figure 2-26**

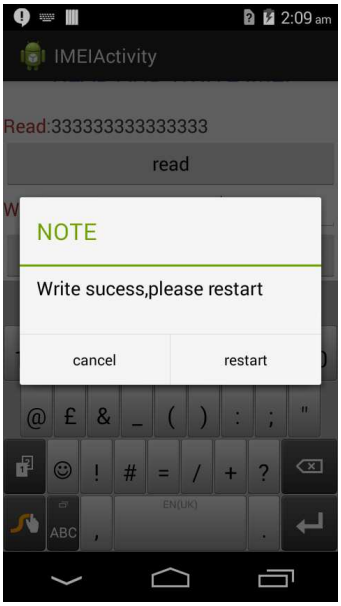

Figure 2-26.Write success

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d. If you write incorrect IMEI, it will prompt an error message “incorrect input”, like **Figure 2-27**

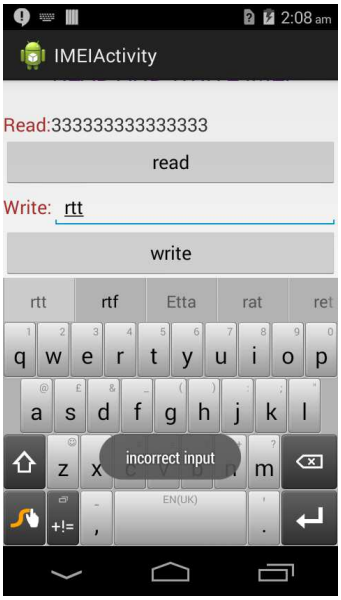

Figure 2-27. Write incorrect IMEI

NOTE:

IMEI must be written in accordance with the rules , or write unsuccessful.

The rule is:must be write fifteen figures

For example:

There is a IMEI:123456789012345,so we write 123456789012345

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SD upgrade tool

Keep user data

There are two method to update the SW use the file of SD_Upgrade_Keep.zip

1. **Use the SD card to update**

(1). Copy the file of SD_Upgrade_Keep.zip to SD card

(2). Insert the SD card to Phone;

(3). Press Power Key + Volume Down to enter the Boot Menu;

(4). Volume Down/Up to select the menu of "apply update from SD card" and press Power key to enter it;

(5). Find the SD_Upgrade_Keep.zip file and press power key to start the SD upgrade action.

2. **Use the fota.bat to update**

(1). Insert the SD card and Power on phone;

(2). Connect the PC via USB cable;

(3). Run the fota.bat(Please make sure the adb can be used).

Clear user data

There are two method to update the SW use the file of SD_Upgrade_Clear.zip

1. Use the SD card to update

(1). Copy the file of SD_Upgrade_Clear.zip to SD card;

(2). Insert the SD card to Phone;

(3). Press Power Key + Volume Down to enter the Boot Menu;

(4). Volume Down/Up to select the menu of "apply update from sdcard" and press Power key to enter it;

(5). Find the SD_Upgrade_Clear.zip file and press power key to start the SD upgrade action.

2. Use the fota.bat to update

(1). Insert the SD card and Power on phone;

(2). Connect the PC via USB cable;

(3). Run the fota.bat (Please make sure the adb can be used).

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Capture log tool

(1) Input “*#*#3313#*#*” in dial pad, then the logcatRecorder screen will be appear, just as follow picture.

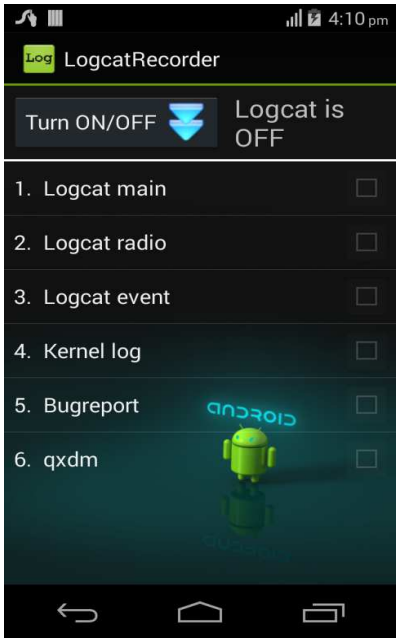

Figure 2-28.Enter logcatRecorder

(2) Select the item what you need, such as the follow picture

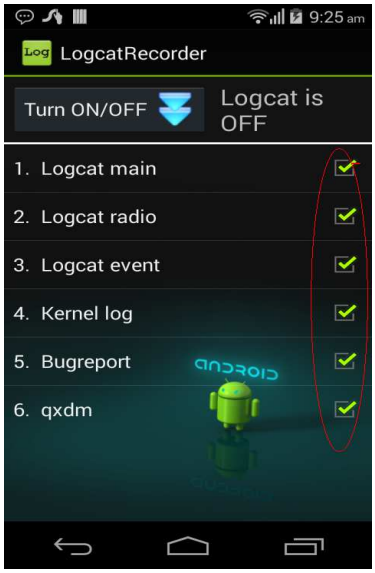

Figure 2-29. Select the item

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(3) Click the “Turn ON/OFF” button to turn on logcatRecorder

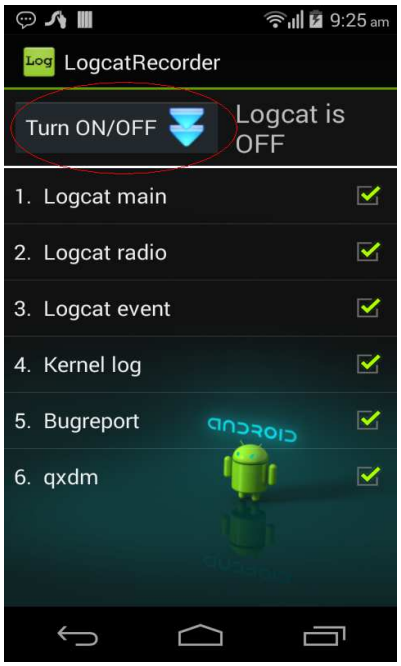

Figure 2-30.Turn on logcatRecorder

(4) Click “Start” button to start catch log

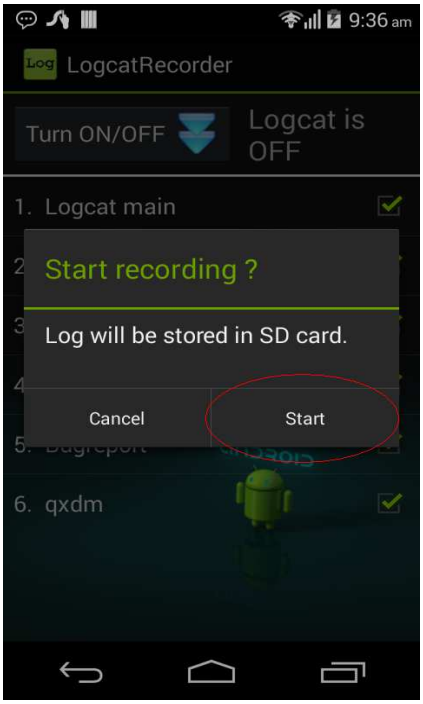

Figure 2-31. Start catch log

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(5) If the logcat is turned on successfully, the text will be changed from “Logcat is OFF” to “Logcat is ON”.

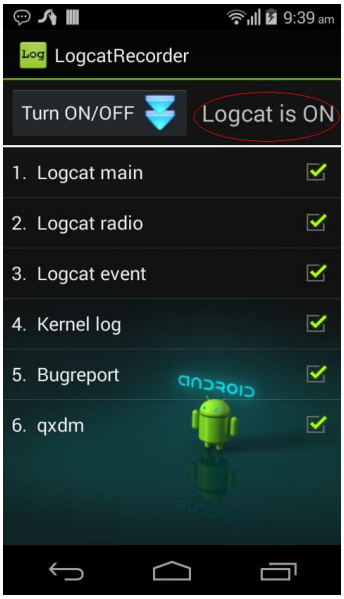

Figure 2-32.Text change to “Logcat is ON”.

(6) If you want to stop the log, click the “Turn ON/OFF” button again, then press the “Stop” button when the dialog popup.

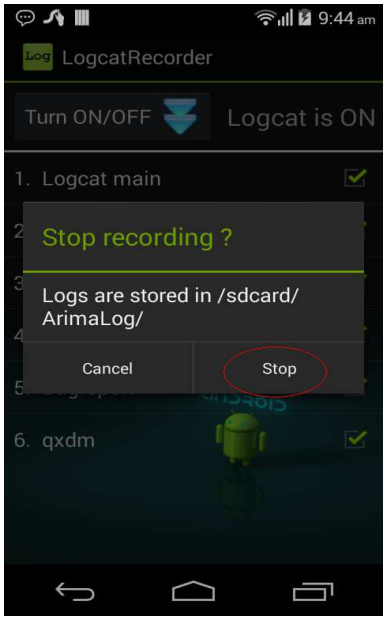

Figure 2-33. Stop the log

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(7) If the logcat is turned off successfully, the text will be changed from “Logcat is ON” to “Logcat is OFF”.

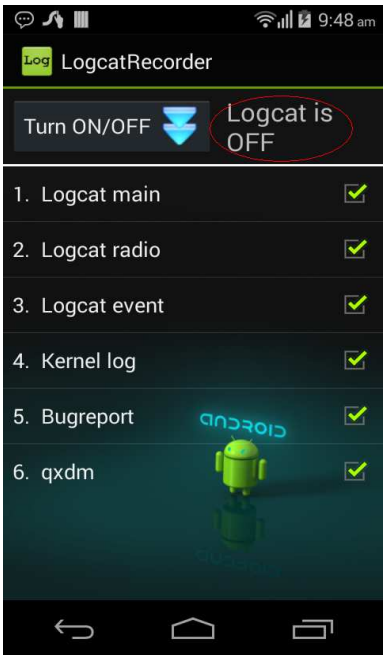

Figure 2-34. Text change to “Logcat is OFF”.

(8) From the follow picture you can see the logs are stored in sdcard/ArimaLog, If you have insert a SD card before turn on the logcat, then the log will be stored in SD card, if not insert SD card, the logs will be stored in internal storage. So you can get the logs from the right path.

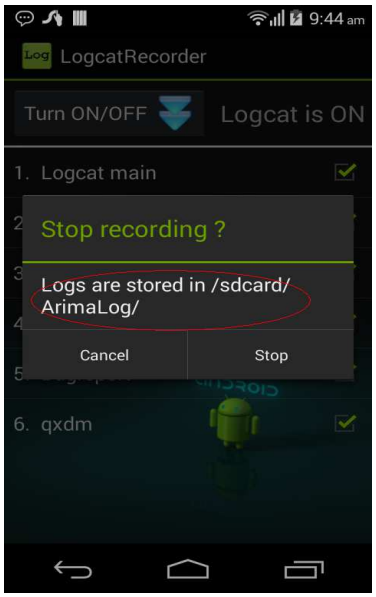

Figure 2-35. The logs stored

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CHAPTER 3

Machine Maintenance

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Machine Maintenance

Machine Disassembly and Replacement

This chapter contains step-by-step procedures on how to disassemble the handset for maintenance and troubleshooting.

Recommended Equipment

To disassemble the handset, the following tools are suggested:

Wrist grounding strap and conductive mat for preventing electrostatic discharge

Cross screwdriver

Guitar Pick

ESD tweezers

Replacement Requirements

Internal Battery and Sub board and LCD FPC require adhesive to be applied during the replacement and reassembly process.

Pre-disassembly Instructions

Before proceeding with the disassembly procedure, make sure that you do the following:

1. Unplug the AC adapter and all cables from the handset
2. Turn off the handset
3. Place the tablet on a flat, stable surface.

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Disassembly Process

The flowcharts provided in the succeeding disassembly sections illustrate the entire disassembly sequence. Observe the order of the sequence to avoid damage to any of the hardware components.

Main screw list

Screw	Quantity	Part Number
1.4mm x 3.0mm	8	

Disassembly Flowchart

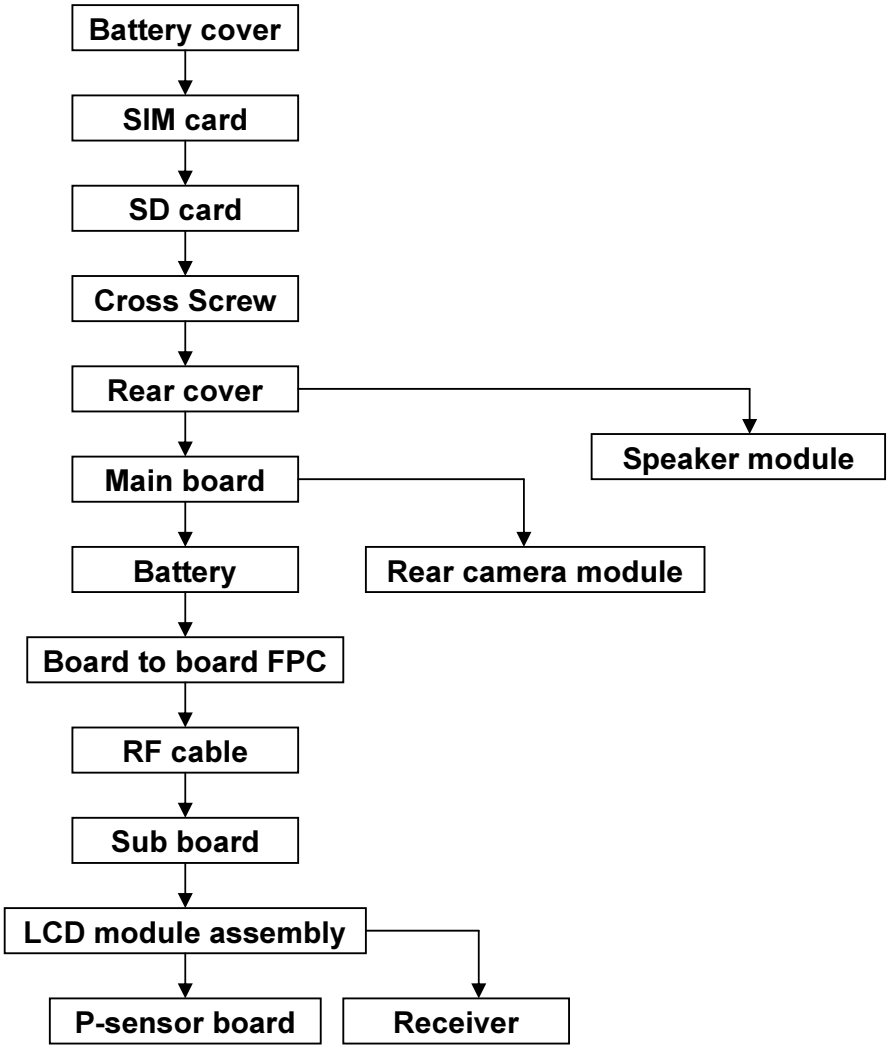

Figure 3-1. Disassembly Flowchart

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Removing the Battery cover

Using your finger to loose the each side hook of battery cover, and then remove the battery cover.

Figure 3-2.Battery cover

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Removing the SIM &SD card

Using your finger to pull out SIM and SD card according to the arrow

Figure 3-3. SIM and SD card

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Removing the Screw

Using the cross screwdriver to loose 8pcs screw. and then remove 8pcs screws

Figure 3-4. 8pcs Screws

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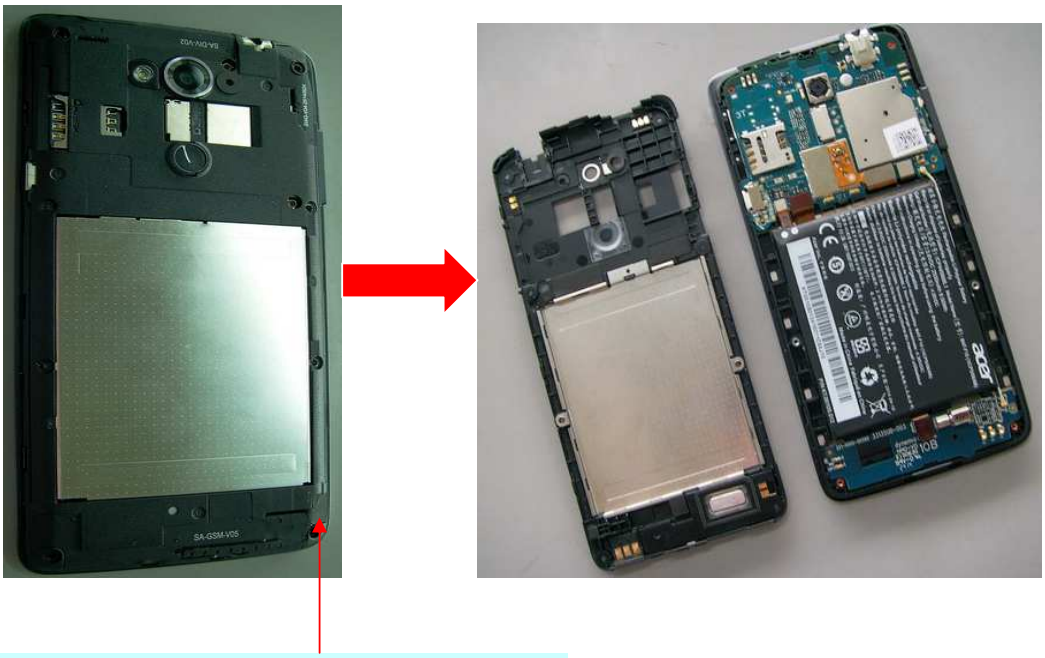
Removing the rear cover

Using Guitar Pick to loose the each side hook of rear cover, and then remove the rear cover.



Notes： Detach from right—bottom corner area.

Figure 3-5.Rear cover

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Removing the speaker module from rear cover

Using your finger to loose the hook of speaker module, and then remove the speaker module

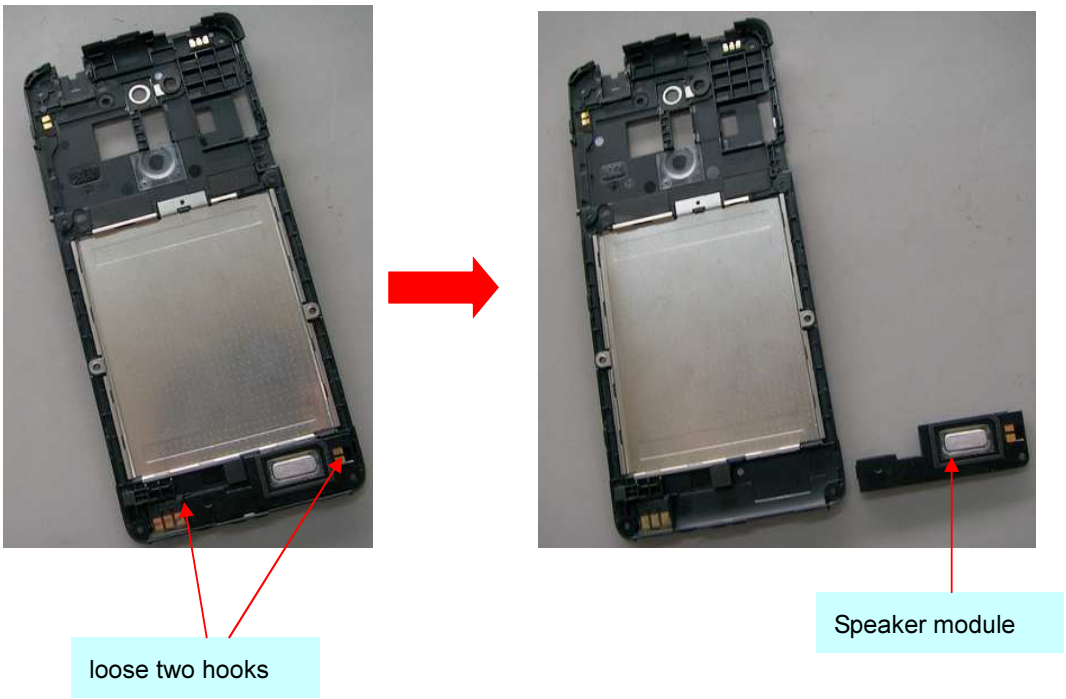

Figure 3-6.Speaker module

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Removing the battery

Using your finger to detach the battery connector, and then detach the battery adhesive, remove the battery

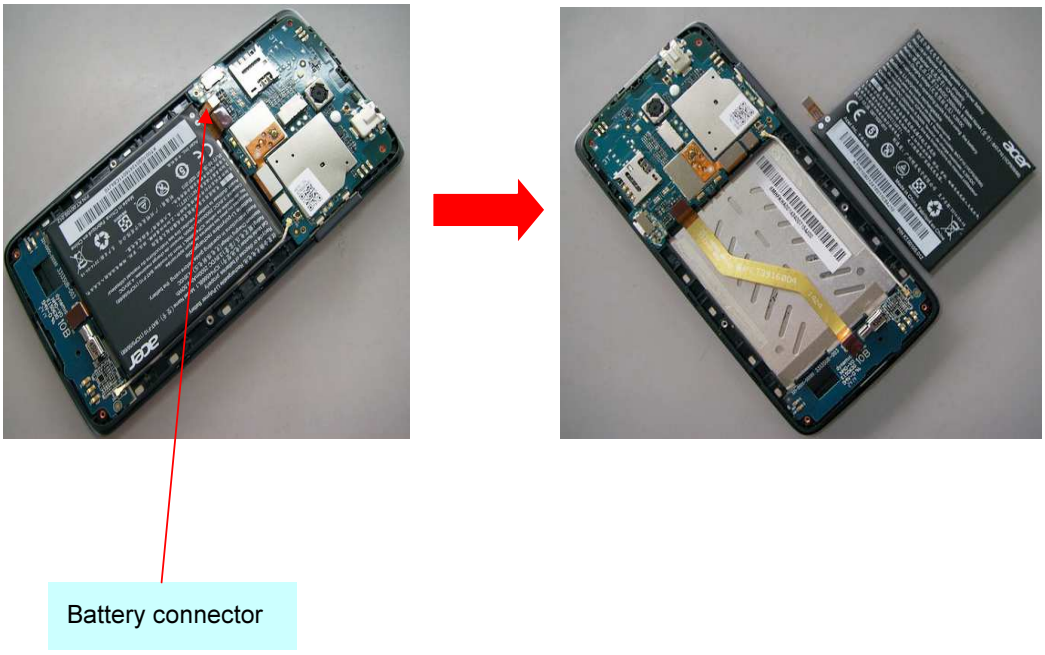

Figure 3-7.Battery

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Removing the RF cable

Using your finger to detach the RF cable connector, and then remove the RF cable

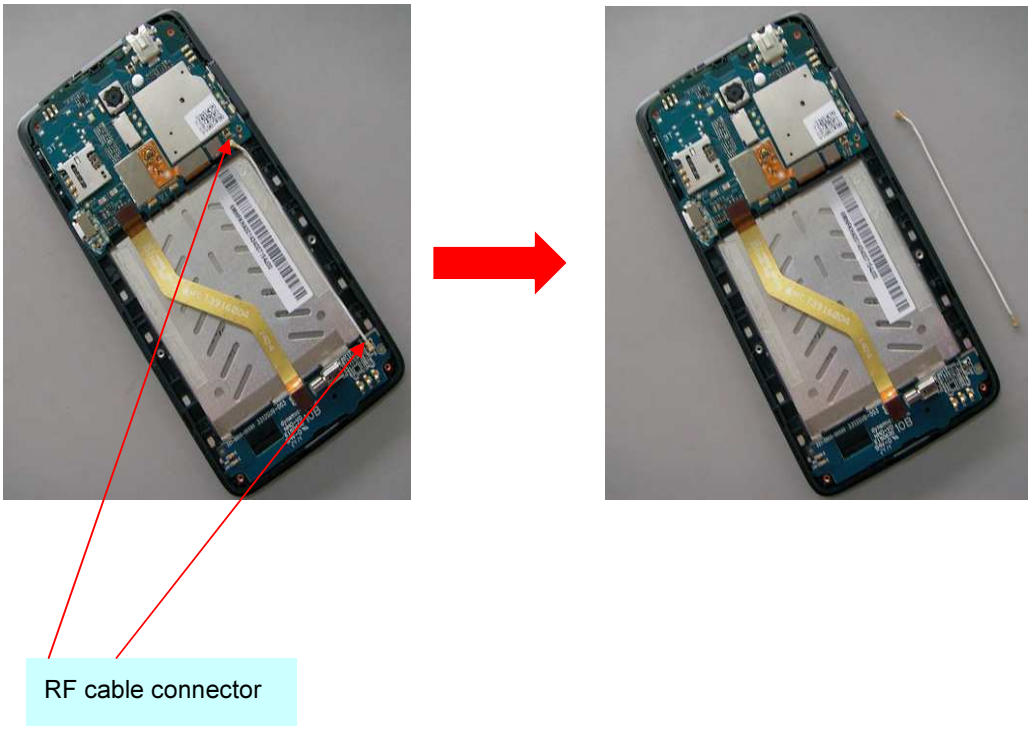

Figure 3-8.RF cable

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Removing the Link FPC

Using your finger to detach the Link FPC connector, and then remove the Link FPC

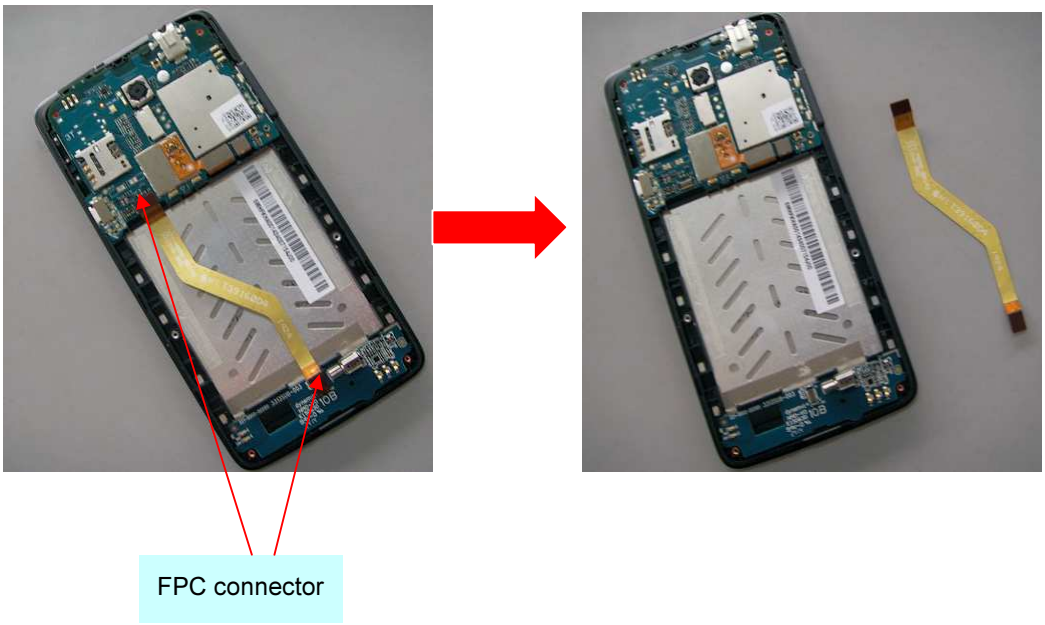

Figure 3-9. Link FPC

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Removing the sub board

Using your finger to loose the hook of sub board, and then remove the sub board

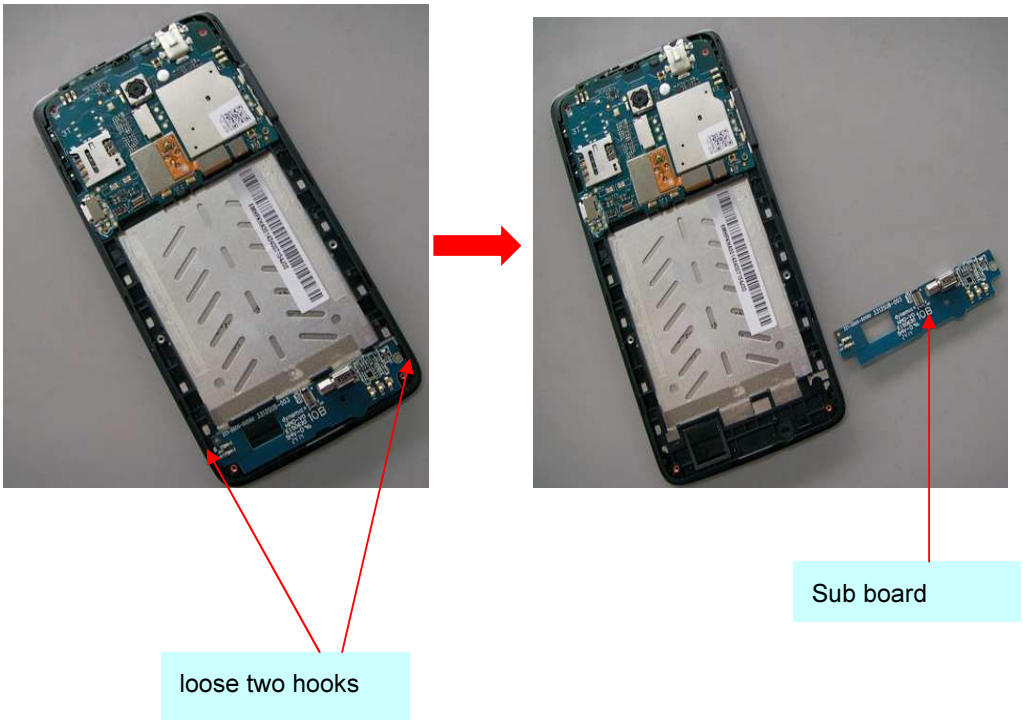

Figure 3-10.Sub board

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Removing the main board

Step1：Using the sharp tweezers to detach the adhesive of rapid key, and then detach the LCM connector

Step2：Using your finger to detach the TP connector

Step3：Using the Guitar Pick to loose 2pcs PCB hooks.

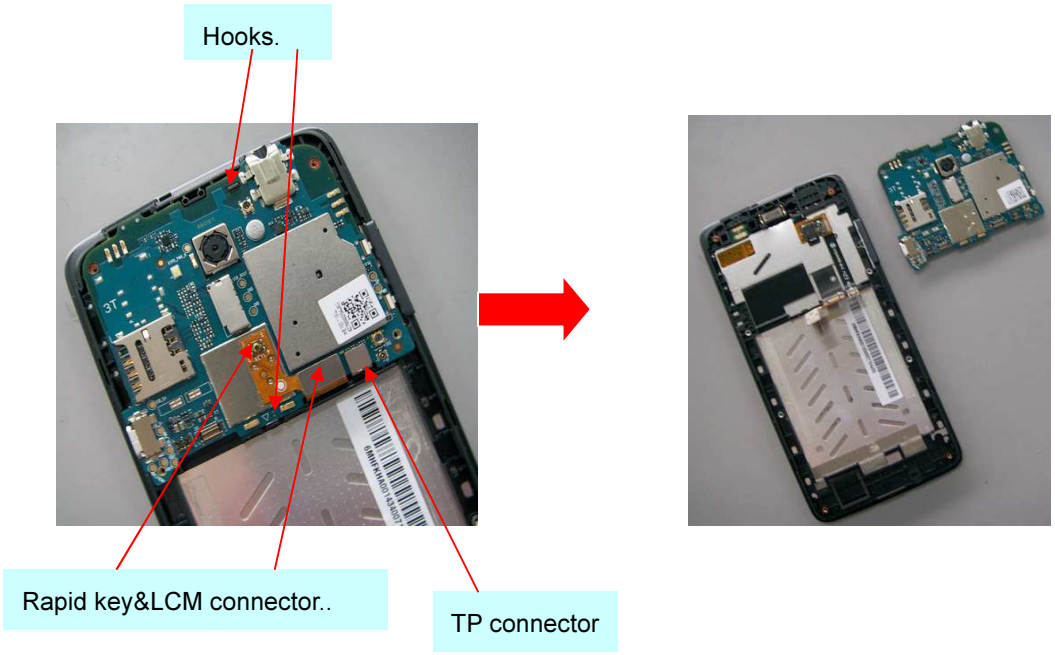

Figure 3-11. Main board

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Removing the rear camera module from main board

Using you finger to detach the rear camera module connector, and then remove the rear camera

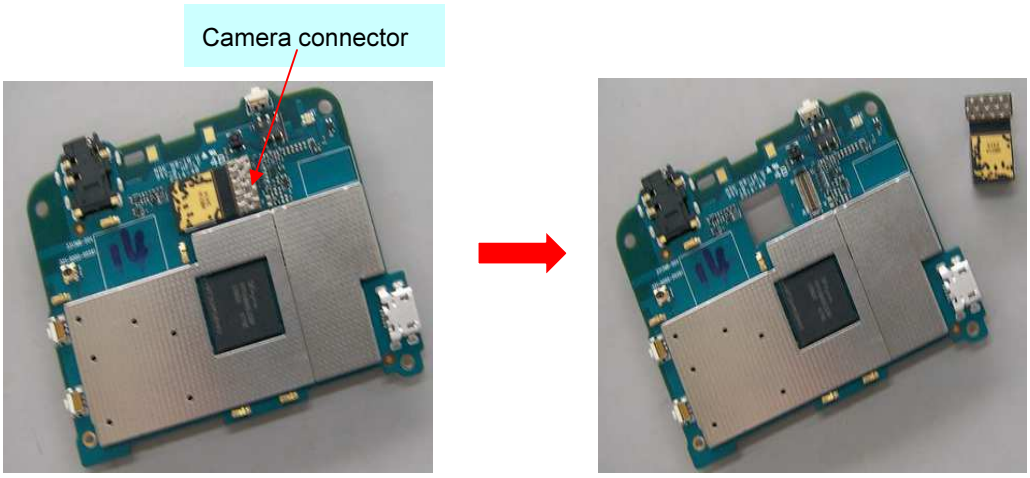

Figure 3-12. Rear camera

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Removing the receiver from LCD assembly module

Using the sharp tweezers to detach the adhesive of receiver, and then remove the receiver

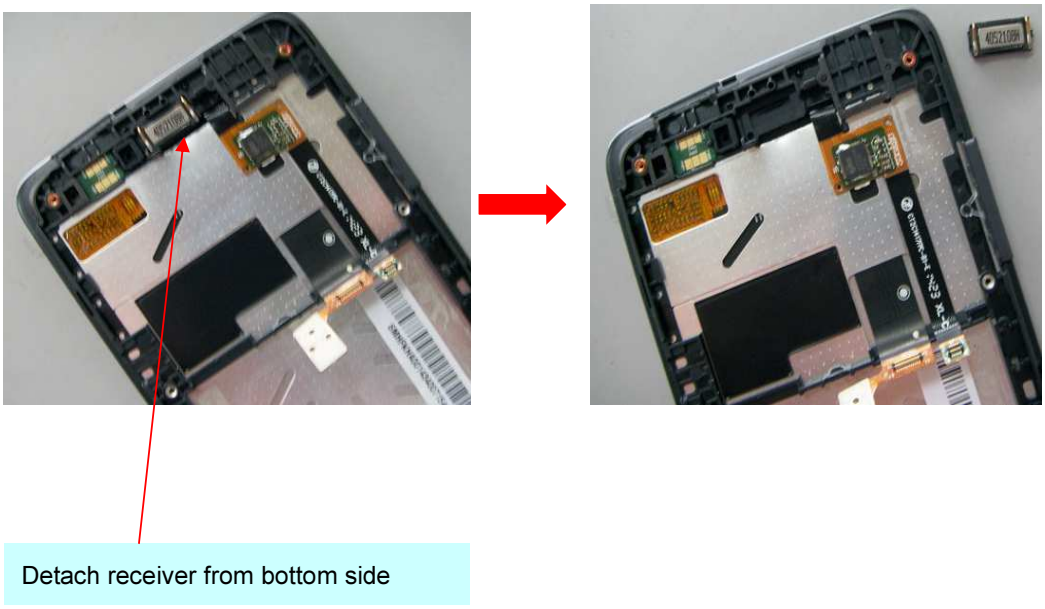

Figure 3-13. Receiver

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Removing the P-sensor board from LCD assembly module

Using the sharp tweezers to detach the P-sensor board, and then remove the P-sensor board

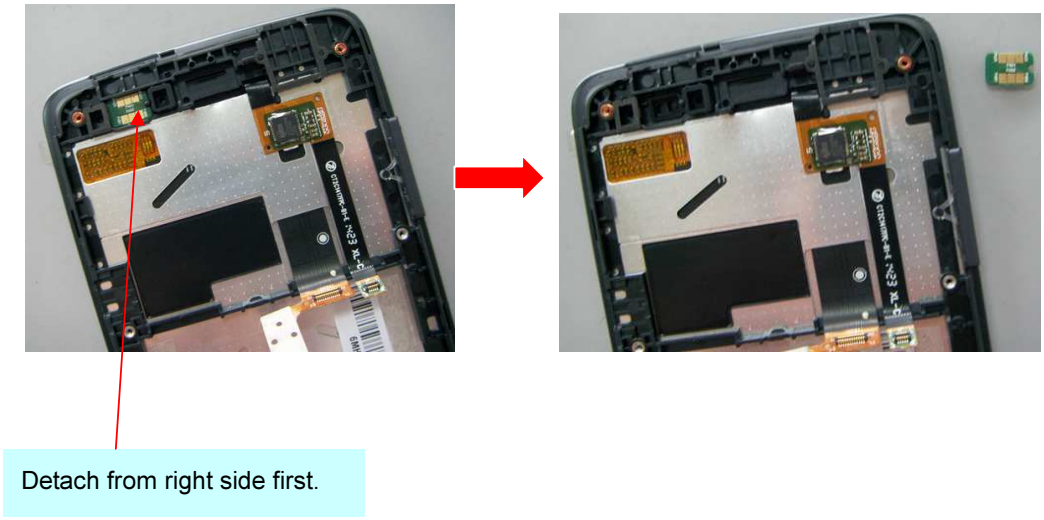

Figure 3-14. P-sensor board

Remain LCM&TP with front cover assy. because design limited, the TP and LCM can‘t be detaching.

Figure 3-15. LCD assembly module

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Assembly the rear camera module to main board

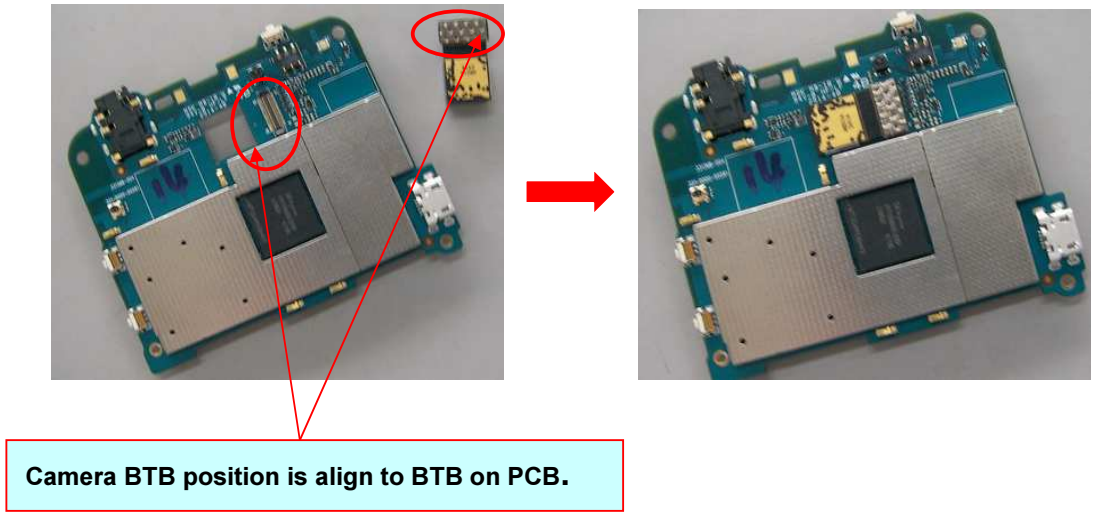

Figure 3-16.Rear camera

Assembly the speaker module to rear cover

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Using your hand to take the speaker module, and then assemble to rear cover and let the hooks of rear cover lock the speaker module

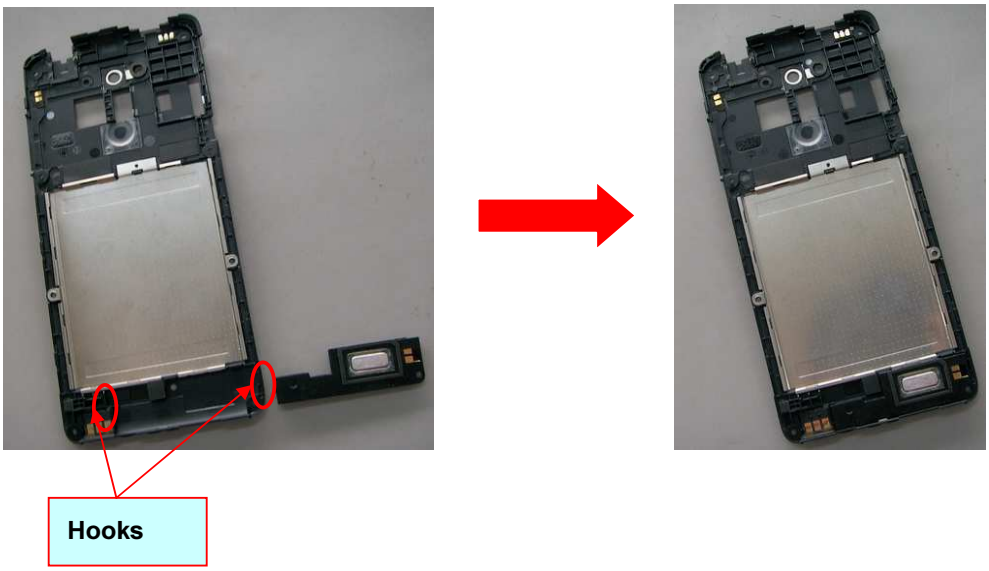

Figure 3-17. Speaker module

Assembly the P-sensor board to LCD assembly module

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Using your hand to take the P-sensor board, and then assemble to LCD assembly module

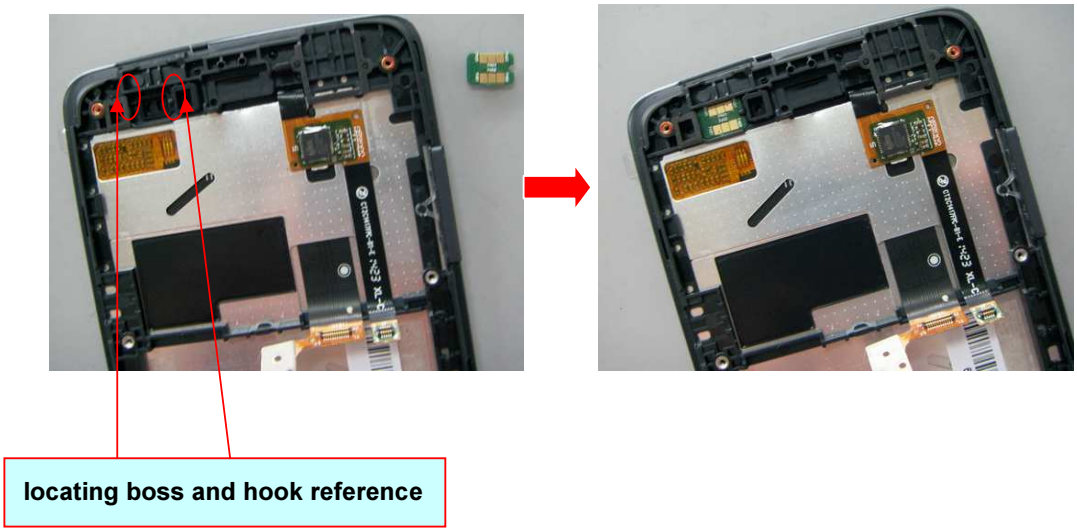

Figure 3-18.P-sensor board

Assembly the receiver to LCD assembly module

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Using your hand to take the receiver, and then assemble to LCD assembly module

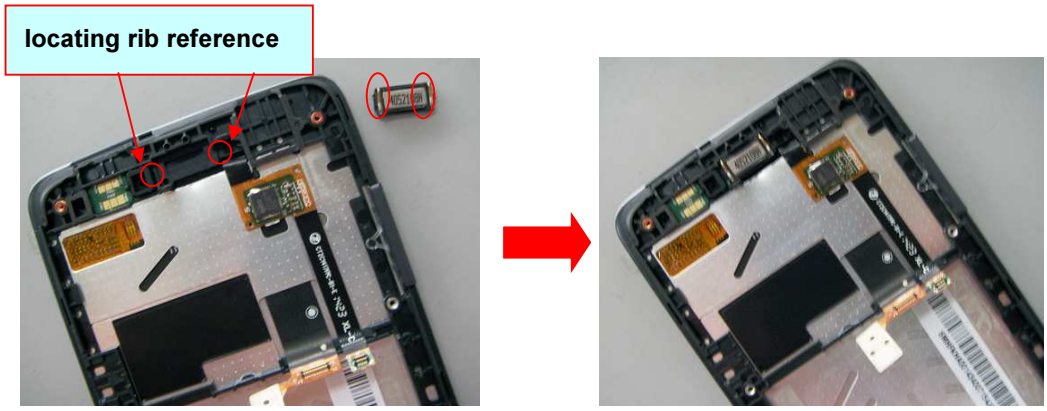

Figure 3-19.Receiver

Assembly the sub board to LCD assembly module

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Using your hand to take the sub board, and then assemble to LCD assembly module and let the hooks of front cover lock the sub board

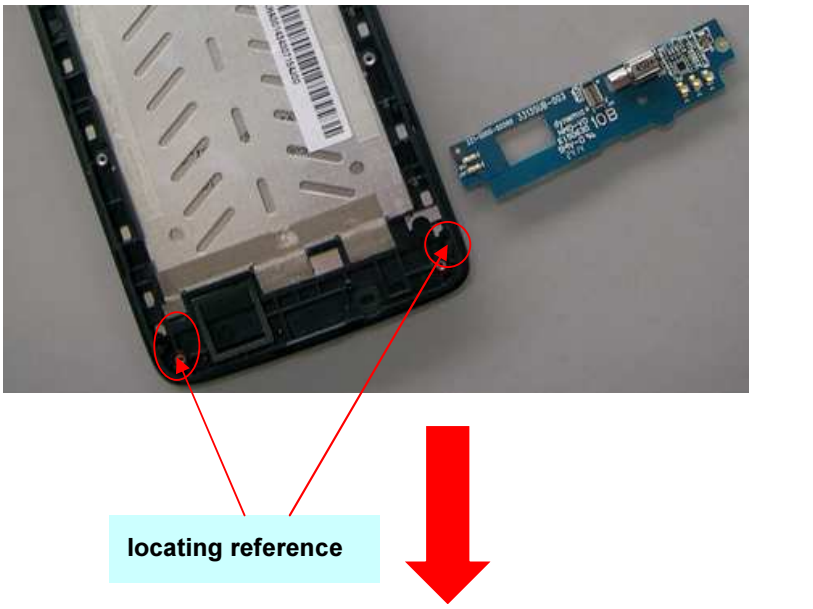

Figure 3-20.Sub board

Assembly the main board to LCD assembly module

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Step1: Using your hand to take the main board, and then assemble to LCD assembly module and let the hooks of front cover lock the main board

Step2: Connect the TP & LCM connector with main board

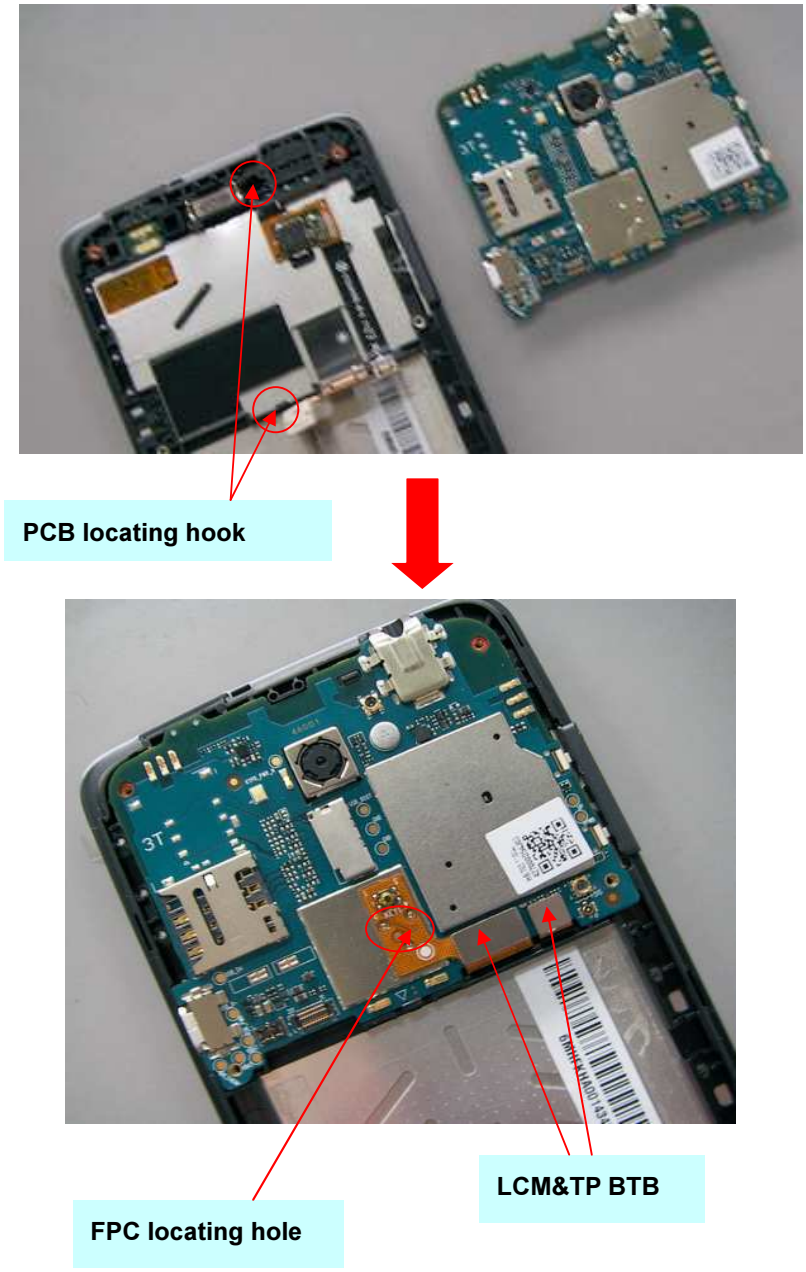

Figure 3-21.Main board

Assembly the Link FPC to LCD assembly module

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Using your hand to take the Link FPC, and then assemble to LCD assembly module, connect the Link FPC connector with main board &sub board

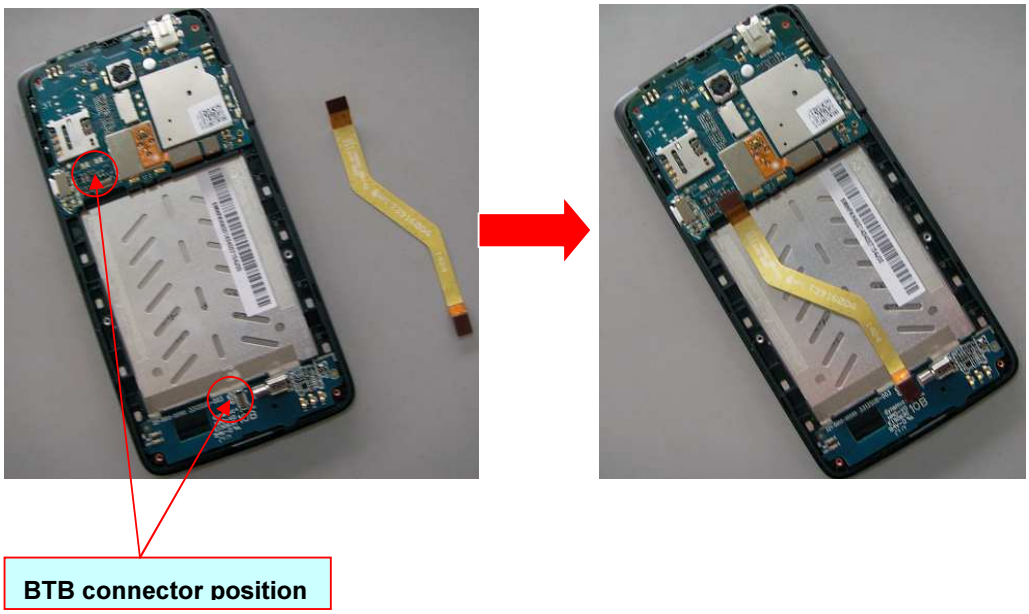

Figure 3-21.Link FPC

Assembly the RF cable to LCD assembly module

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Using your hand to take the RF cable, and then assemble to LCD assembly module, connect the RF cable connector with main board &sub board

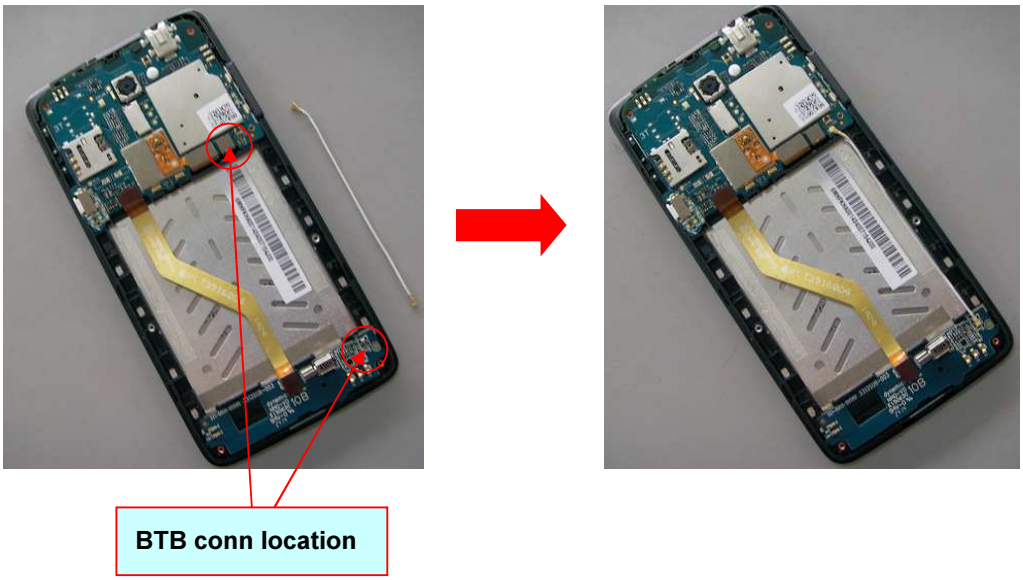

Figure 3-22. RF cable

Assembly the battery to LCD assembly module

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Using your hand to take the battery, and then assemble to LCD assembly module, connect the battery connector with main board

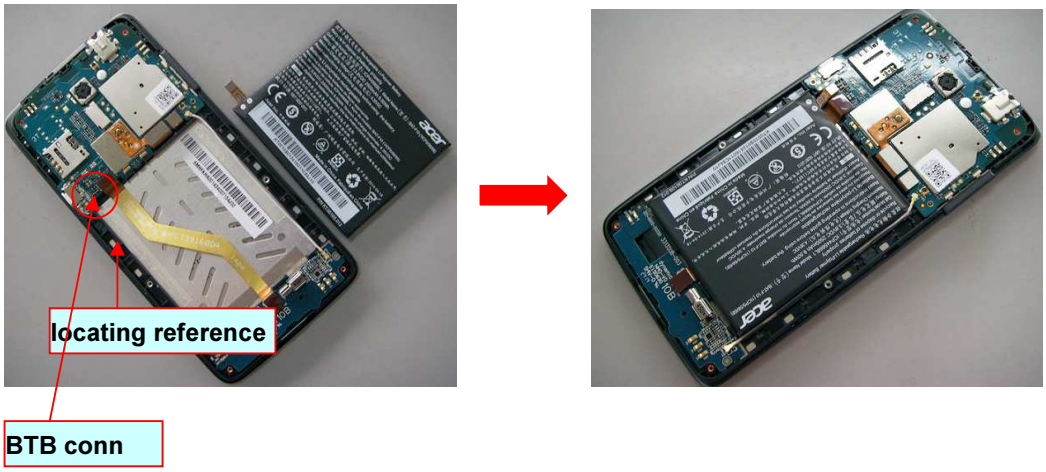

Figure 3-23.Battery

Assembly the rear cover

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Using your hand to take rear cover, and then assemble to LCD assembly module and let the hooks of rear cover lock the front cover

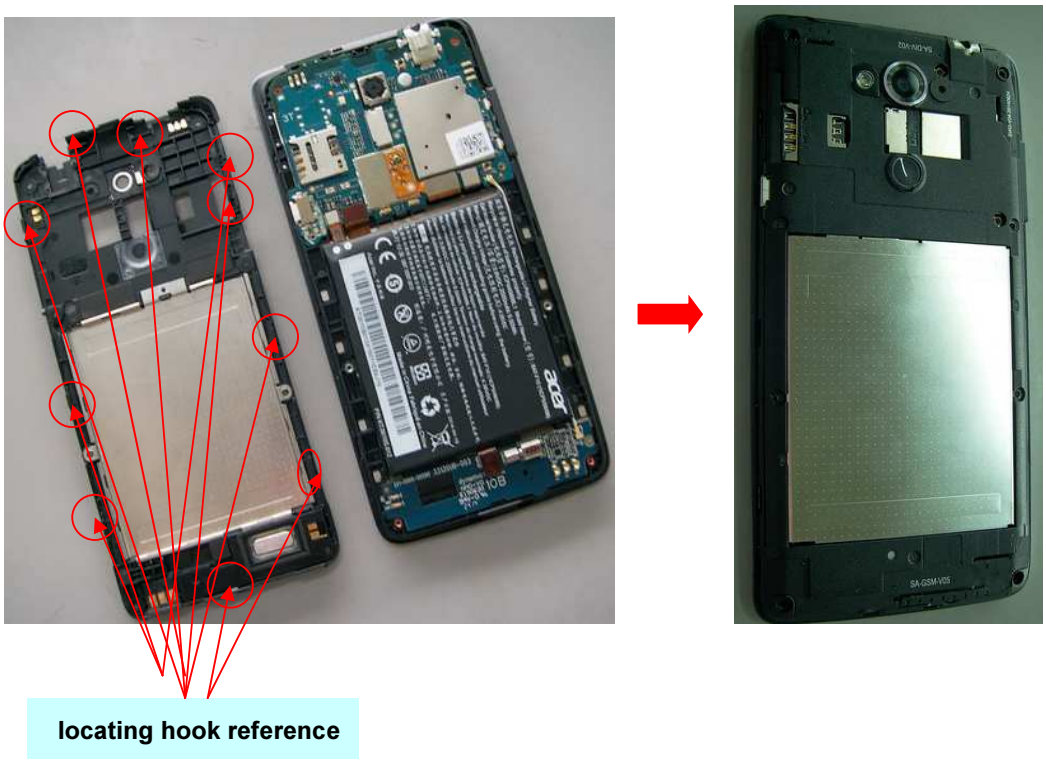

Figure 3-24.Rear cover

Assembly 8pcs screws

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Using the cross screwdriver to lock 8pcs screws as following picture

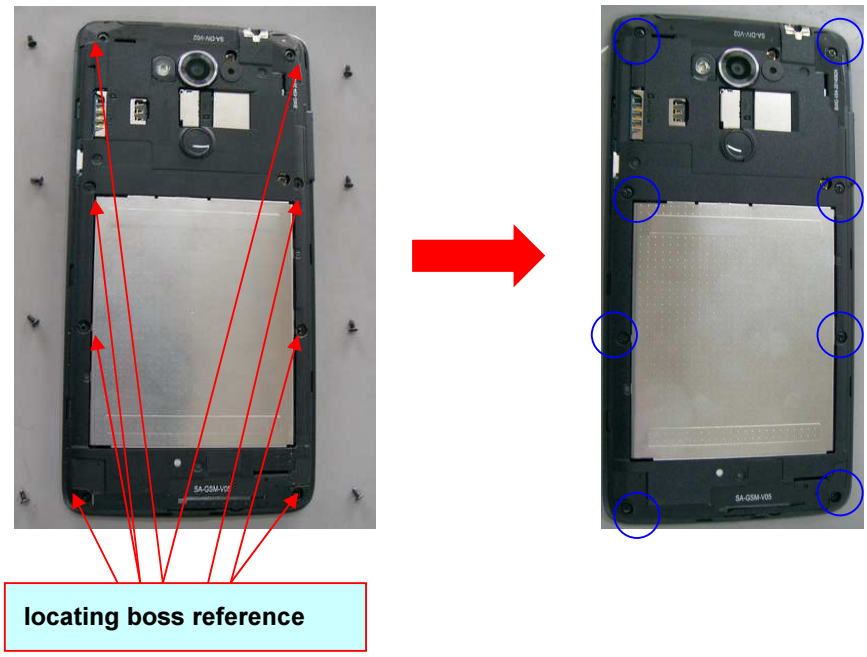

Figure 3-25.Screw

Insert the SIM Micro SD card to handset

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Setp1: Using your hand to take the SIM card, and then insert to the SIM socket according to the arrow

Step2: Using your hand to take the SD card, and then insert to the SD socket according to the arrow

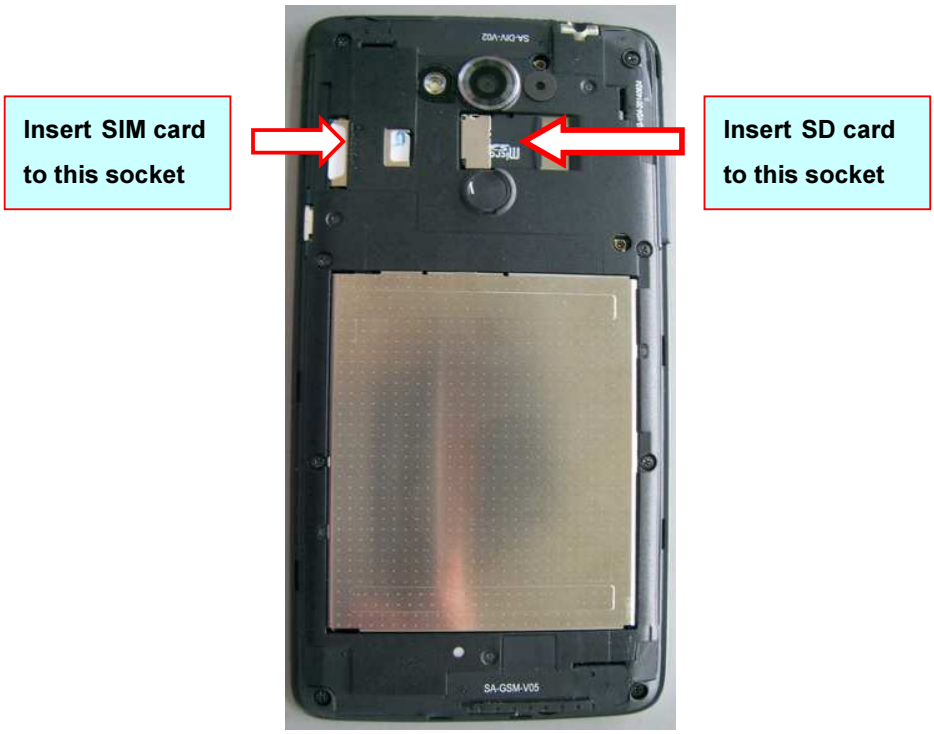

Figure 3-26.SIM and SD card

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Assembly the Battery cover to handset

Using your hand to take battery cover, and then assemble to front cover assembly and let the hooks of front cover lock the battery cover

Figure 3-27. Battery cover

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CHAPTER 4

Troubleshooting

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Troubleshooting

Introduction

This chapter contains all common problems troubleshooting

General Information

The following procedures are a guide for troubleshooting. The step by step procedures are designed to be performed as described.

Table 4-1. Common Problem

Symptoms
No power on
No Display
LCD Picture Failure
Touchscreen Failure
Internal Speaker Failure
Internal Microphone Failure
USB Failure
Front Camera Failure
Rear Camera Failure
Device Vibration Failure
SD Card Reader Failure
SIM card detect Failure
Earphone Failure
Wireless and Bluetooth Function Test Failure
GPS Function Failure
Other Functions Failure

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No Power On Issues

If the phone does not power on, perform the following, one at a time, to correct the problem, do not replace a non-defective FRU.

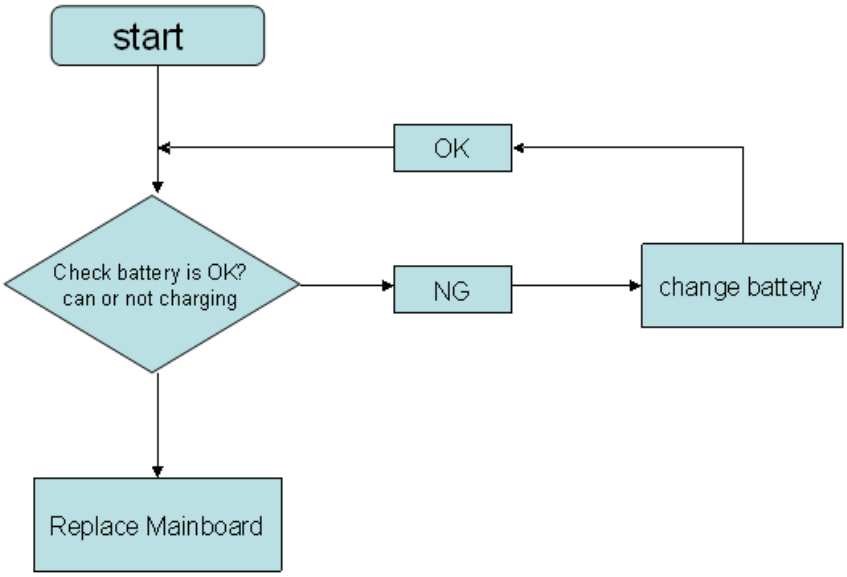

Figure 4-1 No Power On

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No Display Issues

If the display fails, perform the following, one at a time. Do not replace a non-defective FRU:

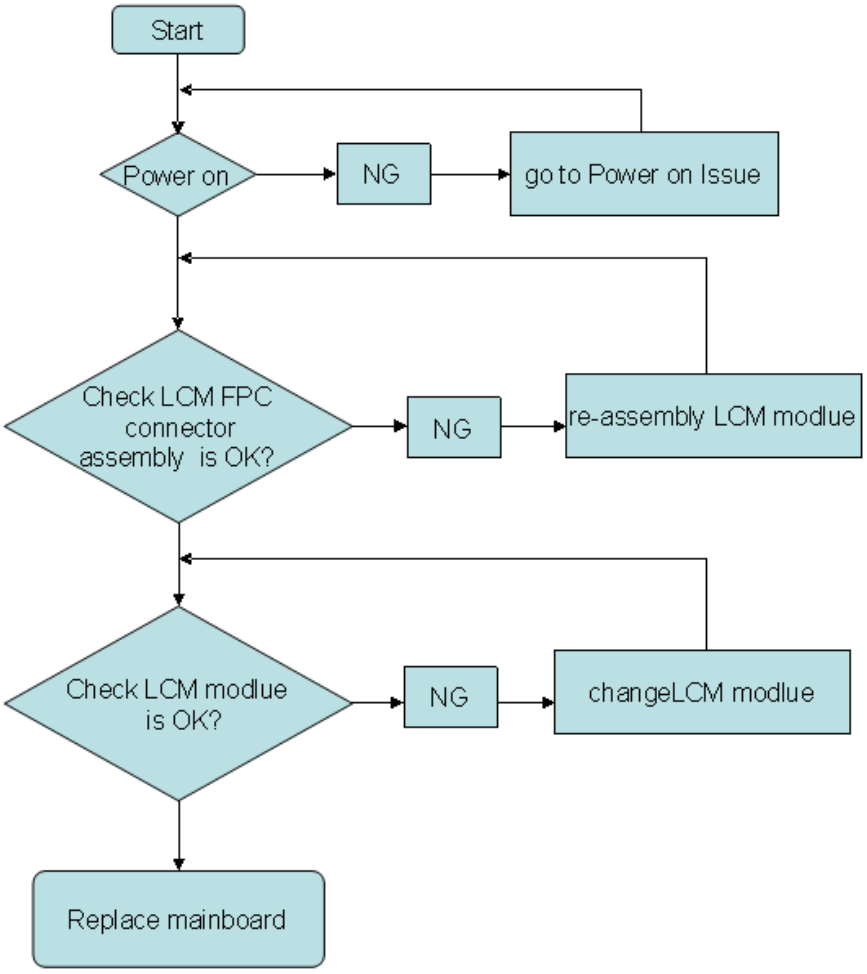

Figure 4-2 No Display Issues

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LCD Picture Failure

If the LCD picture fails, perform the following, one at a time. Do not replace a non-defective FRU:

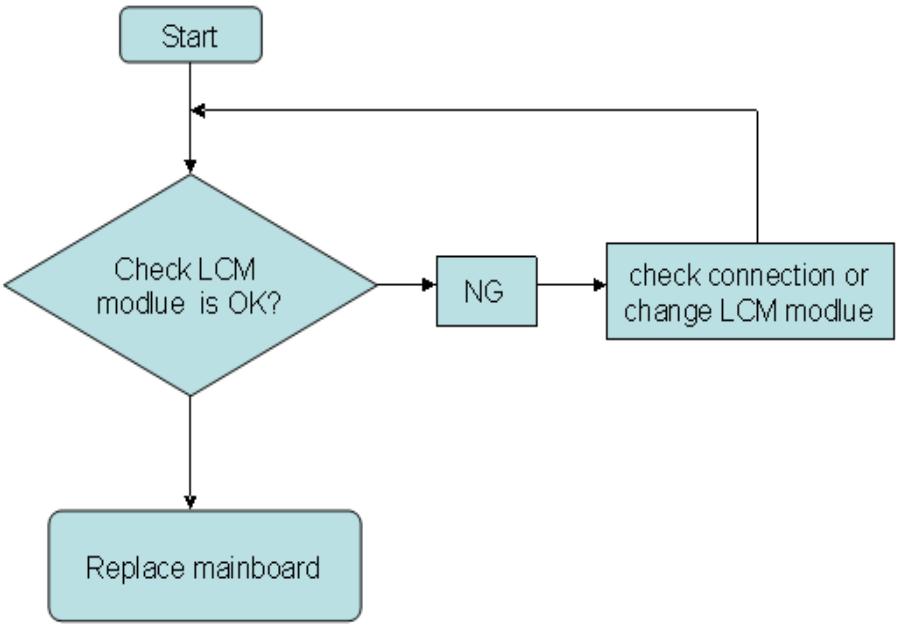

Figure 4-3 LCD Picture Failure

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Touchscreen Failure

If the touchscreen fails to respond, perform the following, one at a time. Do not replace a non-defective FRU:

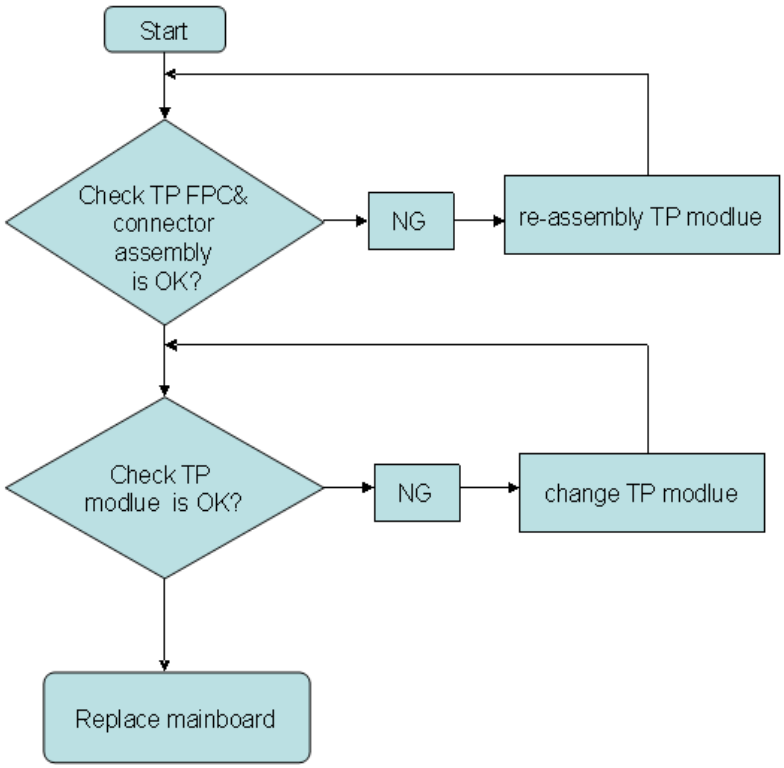

Figure 4-4 Touchscreen Failure

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Internal Speaker Failure

If internal speakers fail, perform the following, one at a time. Do not replace a non-defective FRU:

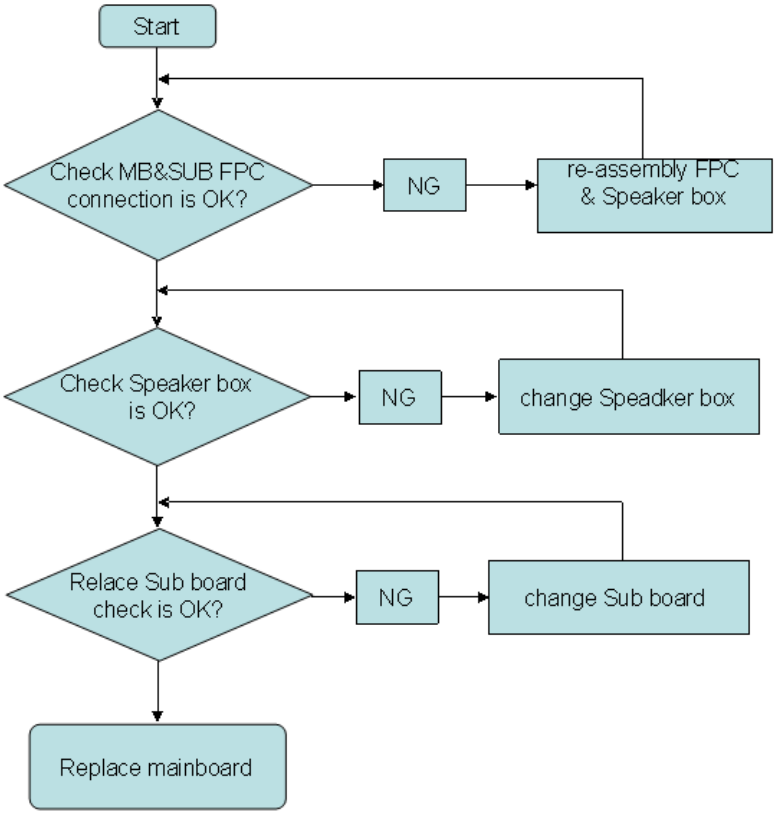

Figure 4-5 Internal Speaker Failure

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Internal Microphone Failure

If internal microphones fail, perform the following, one at a time.

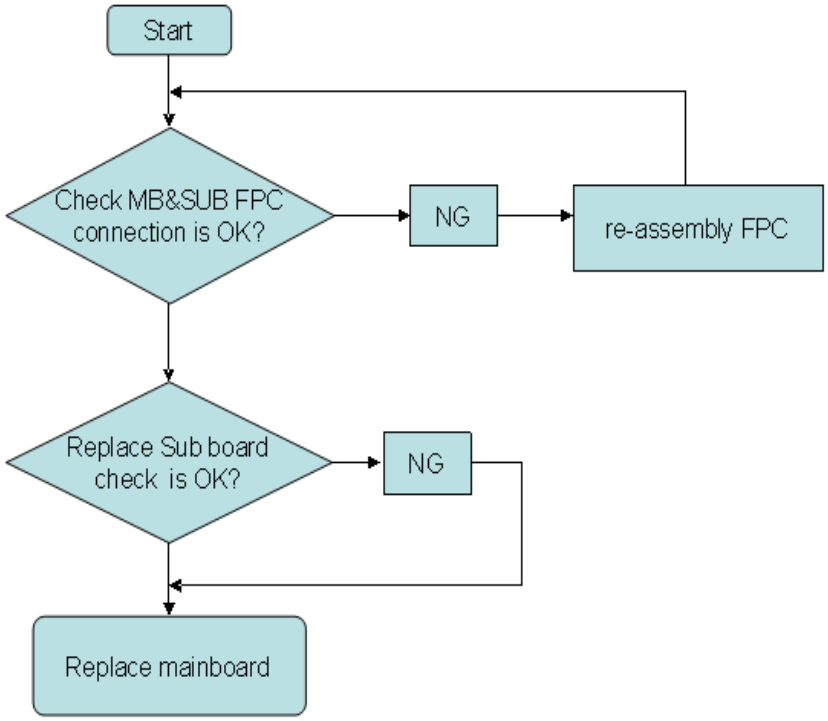

Figure 4-6 Internal Microphone Failure

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USB Failure

If the USB fails, perform the following, one at a time. Do not replace a non-defective FRU:

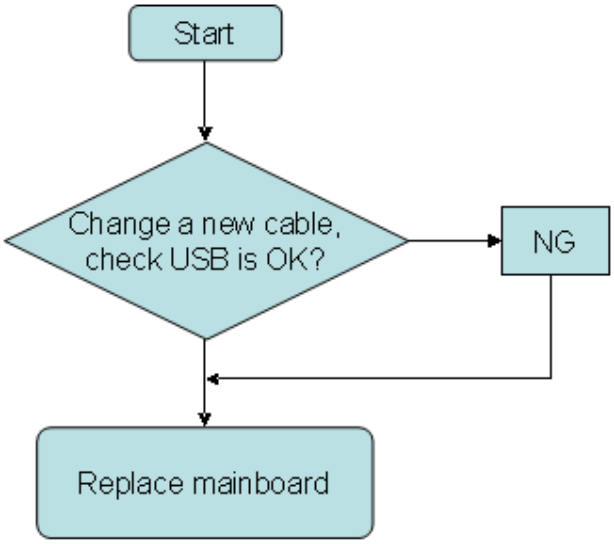

Figure 4-7 USB Failure

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Front Camera Failure

If the front camera fails , please Replace main board directly.

Rear Camera Failure

If the rear camera fails, perform the following, one at a time. Do not replace a non-defective FRU:

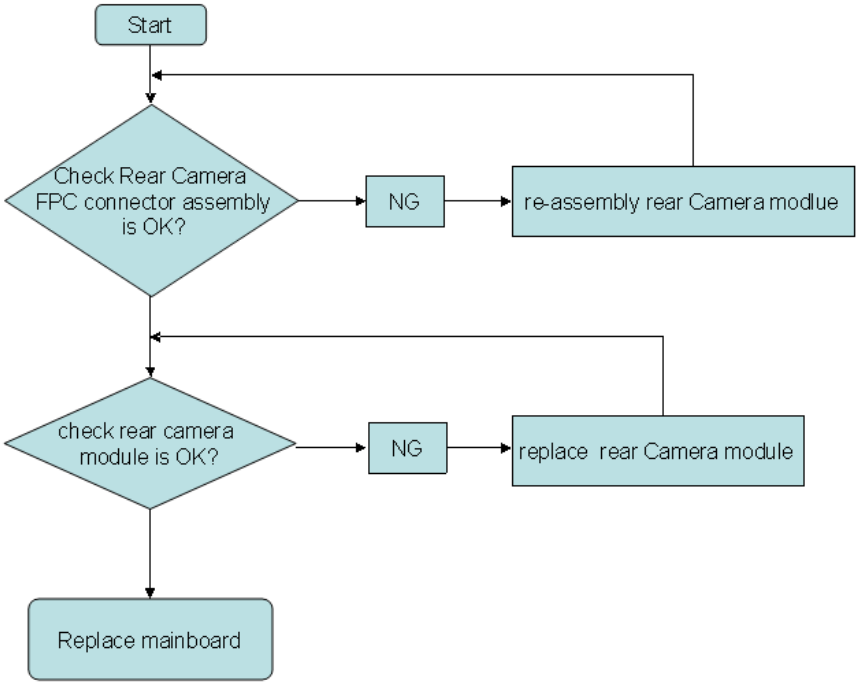

Figure 4-8 Rear Camera Failure

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Device Vibration Failure

If the vibrating alarm fails, perform the following, one at a time. Do not replace a non-defective FRU:

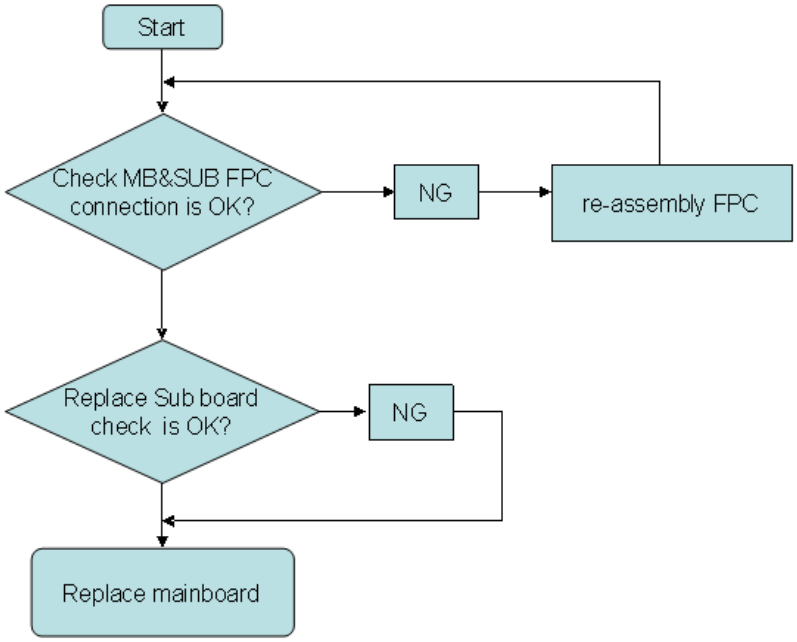

Figure 4-9 Device Vibration Failure

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SD Card Reader Failure

If the SD card reader fails, perform the following, one at a time. Do not replace a non-defective FRU:

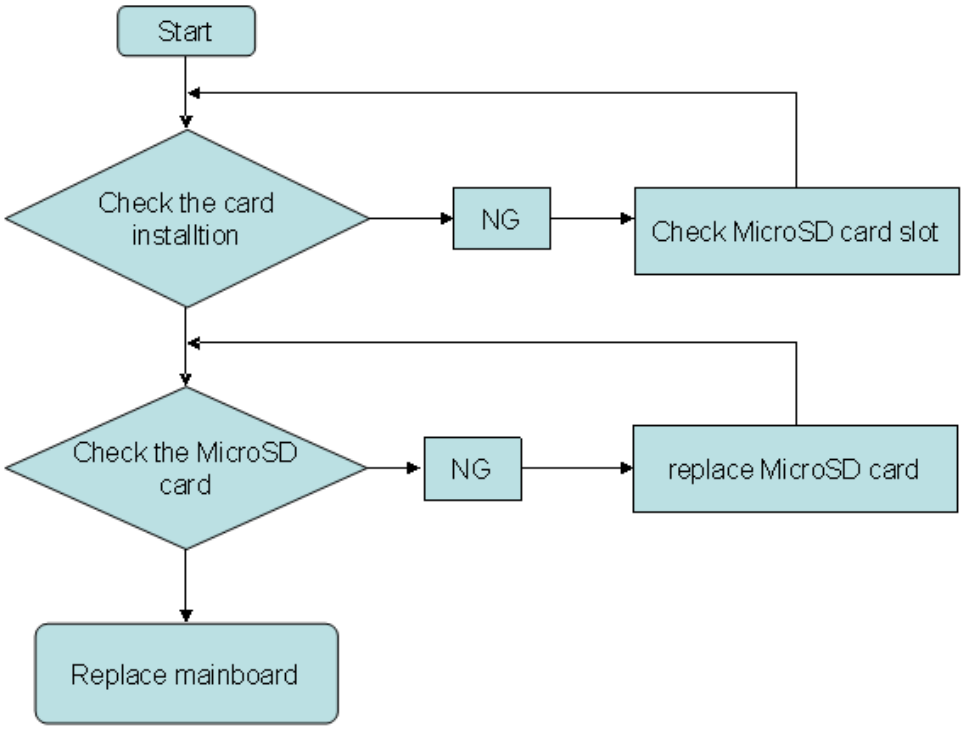

Figure 4-10 SD Card Reader Failure

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SIM card detect Failure

If the SIM card detect fails, perform the following, one at a time. Do not replace a non-defective FRU:

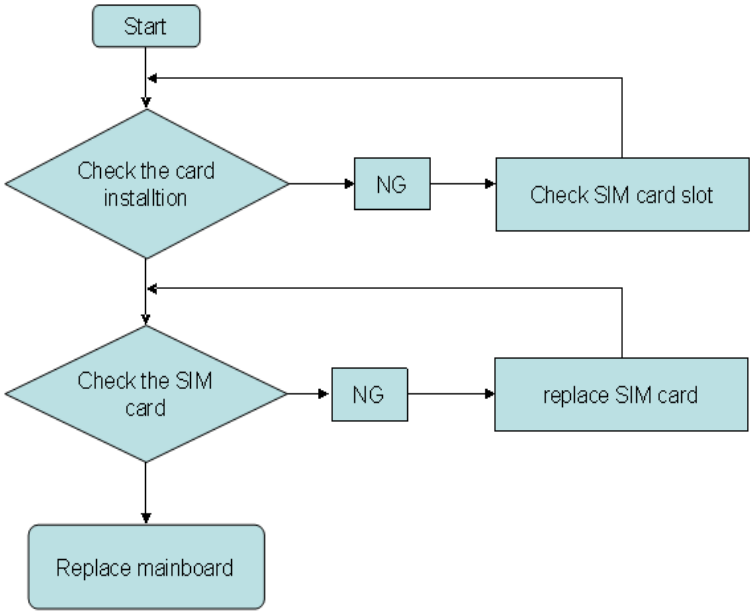

Figure 4-11 SIM card detect Failure

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Earphone Failure

If the Earphone fails, perform the following, one at a time. Do not replace a non-defective FRU:

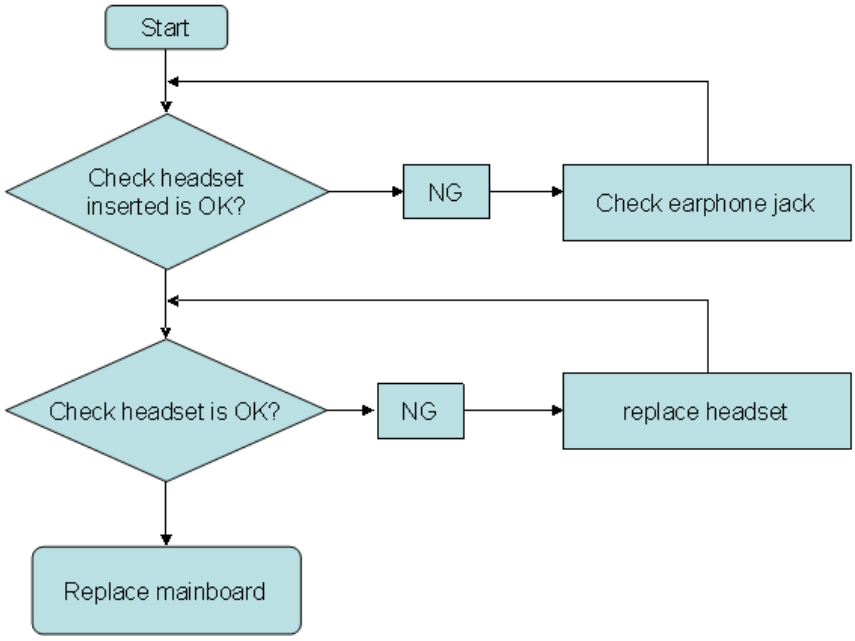

Figure 4-12 Earphone Failure

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Wireless and Bluetooth Function Test Failure

If the wireless function fails, perform the following, one at a time. Do not replace a non-defective FRU:

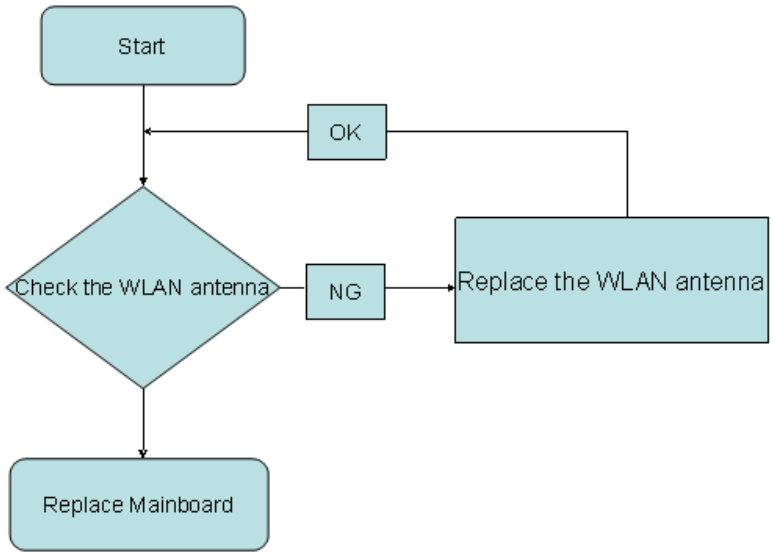

Figure 4-13 Wireless Function Failure

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GPS Function Failure

If the GPS function test fails, perform the following, one at a time. Do not replace a non-defective FRU:

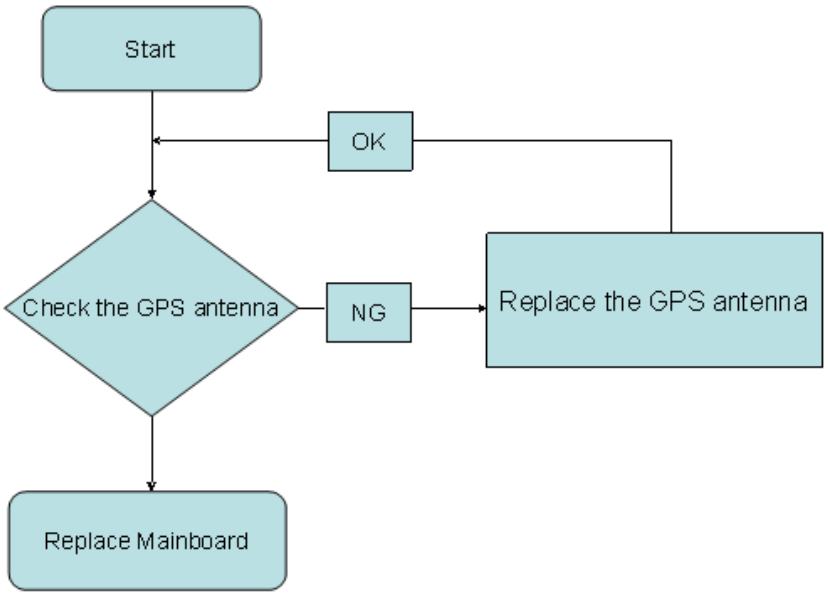

Figure 4-14. GPS Function Failure

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Other Functions Failure

1. Check if the Apps and Android operating system are functioning correctly.
2. Check if external modules are functioning correctly.
3. Check component connection to the mainboard.
4. Change mainboard to check if current one is defective.

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Intermittent Problems

Intermittent system hang problems can be caused by a variety of reasons that have nothing to do with a hardware defect, such as: cosmic radiation, electrostatic discharge, or software errors. FRU replacement should be considered only when a recurring problem exists. When analyzing an intermittent problem, perform the following:

1. Run the advanced diagnostic test for the system board in loop mode at least 10 times.
2. If no error is detected, do not replace any FRU.
3. If an error is detected, replace the FRU. Rerun the test to verify that there are no more errors.

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Undetermined Problems

The diagnostic problems does not identify which adapter or device failed, which installed devices are incorrect, whether a short circuit is suspected, or whether the system is inoperative.

Perform the following procedures to isolate the failing FRU (do not isolate non-defective FRU).

NOTE:

Verify that all attached devices are supported by the computer.

NOTE:

Verify that the power supply being used at the time of the failure is operating correctly.

1. Remove power from the device.
2. Visually check the components for damage. If any problems are found, replace the FRU.
3. Remove or disconnect all of the following devices:

   Non-Acer devices

   MicroSD Card

   Battery pack
4. Apply power to the device.
5. Determine if the problem has changed.
6. If the problem does not recur, connect the removed devices one at a time until failing FRU is found.
7. If the problem remains, replace the following FRUs one at a time. Do not replace a non-defective FRU: Do not replace a non-defective FRU: Do not replace a non-defective FRU: Do not replace a non-defective FRU:

   Mainboard

   Display assembly

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CHAPTER 5

Switch and Connector Locations

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Switch and Connector Locations

Mainboard Layout

Top View

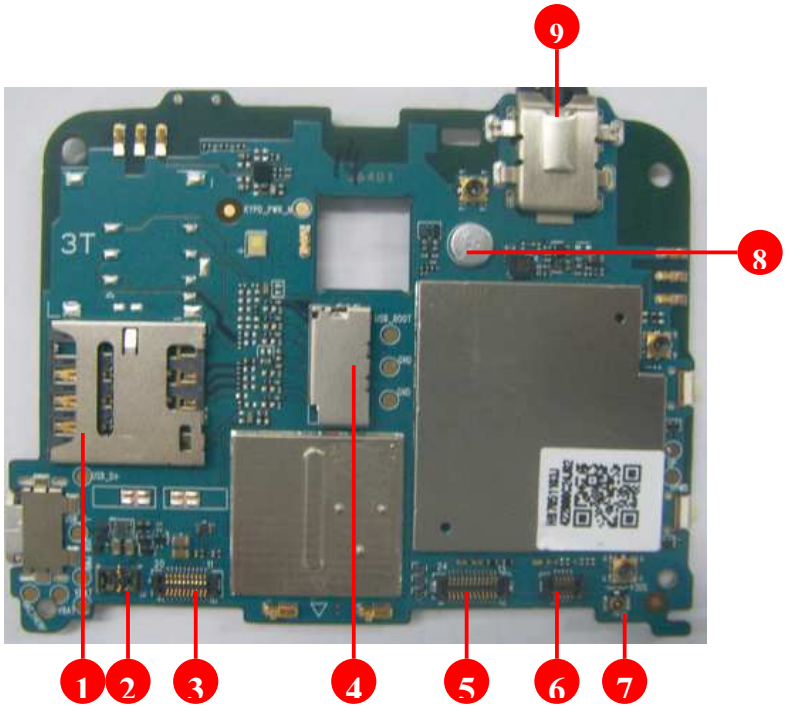

Figure 5-1. Mainboard--Top

Table 5-1. Mainboard --Top

No.	Code	Component
1	J901	SIM card connector
2	J1002	Battery connector
3	J1501	Link FPC connector
4	J902	Micro SD connector
5	J1103	LCD connector
6	J1104	TP connector
7	J2001	RF cable connector
8	MIC800	Sub Microphone
9	J803	Earphone connector

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Bottom View

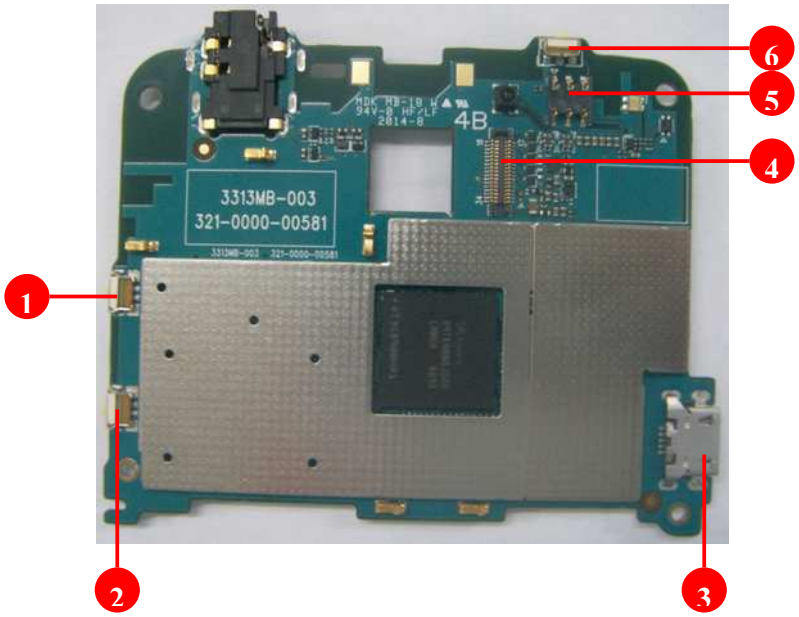

Figure 5-2. Mainboard--Bottom

Table 5-2. Mainboard –Bottom

No.	Code	Component
1	SW1403	Volume up button
2	SW1404	Volume down button
3	J1000	USB and charger connector
4	J1200	Rear camera connector
5	J1305	P-sensor board connector
6	SW1402	Power key

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CHAPTER 6

FRU List

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FRU (Field Replaceable Unit) List

This chapter provides users with a FRU (Field Replaceable Unit) listing in global configurations for E600. Refer to this chapter whenever ordering for parts to repair or for RMA (Return Merchandise Authorization).

NOTE:

WHEN ORDERING FRU PARTS, check the most up-to-date information available on the regional web or channel. Part number changes will not be noted on the printed Service Guide. For ACER AUTHORIZED SERVICE PROVIDERS, the Acer office may have a DIFFERENT part number code from those given in the FRU list of this printed Service Guide. Users MUST use the local FRU list provided by the regional Acer office to order FRU parts for repair and service of customer machines.

NOTE:

To scrap or to return the defective parts, users should follow the local government ordinance or regulations on how to dispose it properly, or follow the rules set by the regional Acer office on how to return it.

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E600 Exploded Diagrams

Main assembly

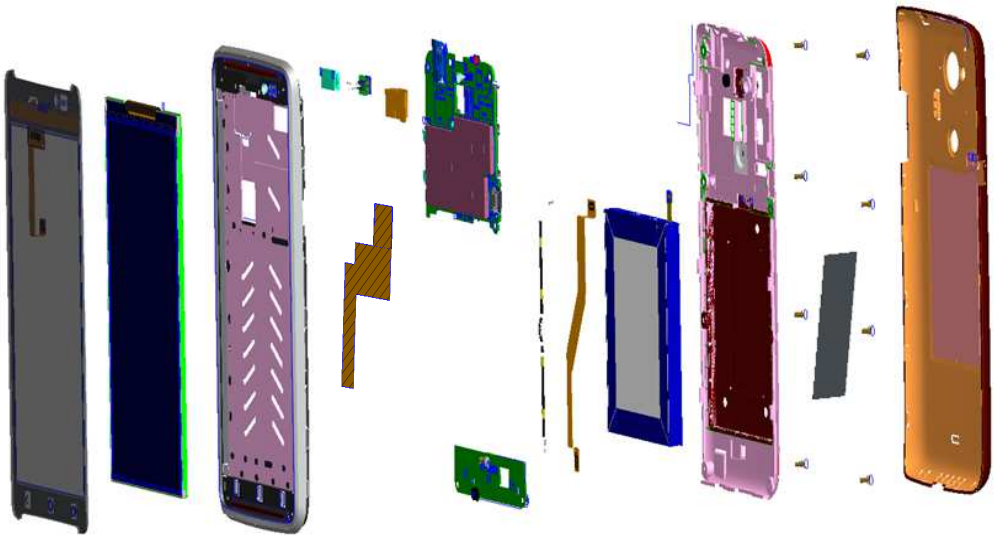

Figure 6-1. Main Assembly Exploded Diagram

Table 6-1. Main Assembly Exploded Diagram

No	Part Name	Q'ty
1	touch panel	1
2	LCM	1
3	front cover assy	1
4	Receiver	1
5	P-sensor PCB	1
6	camera	1
7	main PCB	1
8	Sub PCB	1
9	coxal cable	1
10	link FPC	1
11	battery	1
12	rear cover assy	1
13	screw	8
14	IMEI label	1
15	battery cover	1
16	copper film	1

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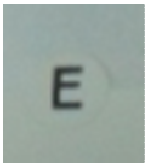
FRU List

CATEGORY	Pic	Description	ACER PART NO.
CABLE		DATA CABLE	HC.70211.030
ACCESSORY		Adapter（EU）	KP.0050M.002
ACCESSORY		Adapter（UK）	KP.0050M.003
ACCESSORY		EARPHONE	HC.00111.006
CASE/COVER/BRACKET ASSEMBLY		BATTERY COVER	60.HFKHA.001
MISCELLANEOUS		Device Label	47.HFKHA.001
MISCELLANEOUS		SEAL LABEL	47.HFKHA.002
MAINBOARD		MB-ASSY	HB.70511.03H
BOARD		SUB-BOARD	55.HFKHA.001

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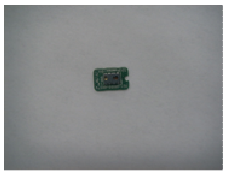
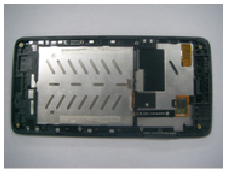
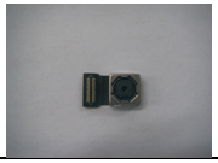
BOARD		P-SENSOR BOARD ASSY	55.HFKHA.002
LCD MODULE		LCD MODULE - BLACK	6M.HFKHA.001
SCREW		SCREW	86.HFKHA.001
CABLE		RF CABLE	50.HFKHA.001
CABLE		Link FPC	50.HFKHA.002
CAMERA		CAMERA MODULE	KR.08M0P.001
BATTERY		Battery TWS 1CELL Polymer 1S1P LGC 1 cell 2500mAH Main COMMON	KT.0010S.012
CASE/COVER/BRACKET ASSEMBLY		RECEIVER	60.HFKHA.002
FAN SINK/SPEAK/EARPHONE/RTC		SPEAKER MODULE	23.HFKHA.001

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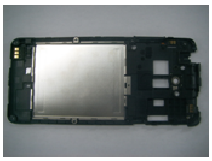
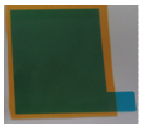
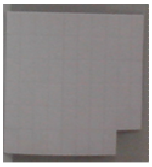
CASE/COVER/BRACKET ASSEMBLY		REAR COVER	60.HFKHA.003
MISCELLANEOUS		RAPID KEY ADHESIVE	47.HFKHA.003
MISCELLANEOUS		SUB BOARD ADHESIVE	47.HFKHA.004
MISCELLANEOUS		BATTERY ADHESIVE	47.HFKHA.005
MISCELLANEOUS		WATERPROOF LABEL	47.HFKHA.006

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